

Table 1. Clinical Information for Hepatocellular Carcinoma, Metastatic Liver Tumor, and Normal Liver Samples Included in this Study

Sample	Pathology	Primary Tumor	Age	Gender	Race	TNM Classification	Histopathologic Grade	Clinical Stage
HCC1	Hepatocellular Carcinoma	Liver	64	Male	Caucasian	T3.Nx.Mx	G2	stage III
HCC2	Hepatocellular Carcinoma	Liver	27	Female	Caucasian	T3.N0.Mx	G1	stage III
HCC3	Hepatocellular Carcinoma	Liver	78	Female	Caucasian	T4.Nx.Mx	G2	stage III
HCC4	Hepatocellular Carcinoma	Liver	43	Male	Asian	T4.N1.Mx	G2	stage IV
HCC5	Hepatocellular Carcinoma	Liver	51	Male	Caucasian	T4.N0.Mx	G2	stage IV
HCC6	Hepatocellular Carcinoma	Liver	57	Male	Caucasian	unavailable	G2	stage III
M1	Metastatic Adenocarcinoma	Rectum	61	Female	Caucasian	Tx.Nx.M1	G3	stage IV; Duke D
M2	Metastatic Adenocarcinoma	Colon	54	Male	Caucasian	unavailable	G2	stage IV; Duke D
M3	Metastatic Adenocarcinoma	Rectum	50	Female	Caucasian	Tx.Nx.M1	G2	stage IV; Duke D
M4	Metastatic Adenocarcinoma	Colon	60	Male	Caucasian	Tx.Nx.M1	G2	stage IV; Duke D
M5	Metastatic Adenocarcinoma	Colon	57	Male	Caucasian	Tx.Nx.M1	G2	stage IV; Duke D
N1	Normal liver		54	Female	Caucasian			
N2	Normal liver		55	Female	Caucasian			
N3	Normal liver		58	Male	Caucasian			
N4	Normal liver		44	Female	Caucasian			
N5	Normal liver		40	Female	Caucasian			
N6	Normal liver		72	Female	Caucasian			
N7	Normal liver		48	Female	Unknown			
N8	Normal liver		55	Female	Caucasian			

Table 2. Summary of Genes and ESTs Expressed in HCC, Metastatic Liver Tumors, and Normal Livers

I. Fingerprint of Gene Expression		Hepatocellular Carcinoma	Colorectal Metastases	Normal Livers
Genes and ESTs commonly expressed in sample set		8479	5102	6213
Genes and ESTs commonly unexpressed in sample set		23233	30455	24900
II. Fold Change				
Genes and ESTs overexpressed in tumors (fold change >3 and p<0.05)		842	1044	
Number of Genes		430	603	
Number of ESTs		412	441	
Genes and ESTs underexpressed in tumors (fold change >3 and p<0.05)		393	1867	
Number of Genes		235	1016	
Number of ESTs		198	851	
III. Differential Comparison between Normal and Tumor Expression				
Genes and ESTs turned ON in tumors		243	298	
Genes and ESTs with expression level above threshold in tumor		77	155	
Number of Genes		38	83	
Number of ESTs		39	72	
Genes and ESTs turned OFF in tumors		47	903	
Genes and ESTs with expression level above threshold in normal		23	449	
Number of Genes		13	289	
Number of ESTs		10	160	

Table 3A. Top Fifteen Genes Overexpressed in Hepatocellular Carcinoma

Accession #	SEQ ID:	UniGene Cluster	Gene Name	Fold Change	Pvalue
N33920	2492	Hs.44532	dubiquitin	50.3	0
Y00705	3847	Hs.181286	serine protease inhibitor, Kazal type 1	28.9	0.00003
A461016	1499	Hs.102737	teiraspian NET-6 protein	16.4	0.00249
A4505133	1417	Hs.279905	solute carrier family 2 (facilitated glucose transporter), member 3	12.2	0.00169
A4055866	135	Hs.146428	collagen, type V, alpha 1	10.9*	0.00907
A4430032	1009	Hs.252587	pituitary tumor-transforming 1	10.7*	0.00052
Z37987	3879	Hs.119651	glypican 3	10.7	0.02304
J03464	2084	Hs.179573	collagen, type I, alpha 2	10.4	0.00979
W45320	3520	Hs.228059	KRAB-associated protein 1	10.1*	0.00002
M94250	2425	Hs.82045	midkine (neurtie growth-promoting factor 2)	9.9*	0.02104
A4428172	986	Hs.8546	Notch (Drosophila) homolog 3	9.6*	0.00195
A4620881	1510	Hs.21858	trinucleotide repeat containing 3	9.5	0.00062
D51276	1878	Hs.61915	leukemia-associated phosphoprotein p18 (statmin)	9.4	0.00015
A4156187	339	Hs.81634	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit b, isoform 1	9.4	0.02007
D31094	1639	Hs.109798	G0 protein	9.4	0.0048

Table 3B. Top Fifteen Genes that are Underexpressed in Hepatocellular Carcinoma

Accession #	SEQ ID:	UniProt Cluster	Gene Name	Fold Change	Pvalue
H81070	2006	Hs.3765	RNA helicase-related protein	38.6	0.00002
AA007395	17	Hs.1219	alcohol dehydrogenase 4 (class II), pi polypeptide	37.8	0.00939
T48075	3129	Hs.251577	hemoglobin, alpha 1	35.8	0.00471
N80129	2702	Hs.94360	metallothionein 1L	26.9	0.00969
AA010605	26	Hs.2899	4-hydroxyphenylpyruvate dioxygenase	25.5	0.00855
W88946	3636	Hs.18508	putative glycine-N-acyltransferase	25.3	0.00221
T05813	3261	Hs.137476	KIAA1051 protein	20.4	0.01361
H56562	1960	Hs.9520	formyltetrahydrofolate dehydrogenase	20.2	0.00485
R97419	3003	Hs.35718	cytochrome P450, subfamily VIIIB (steroid 12-alpha-hydroxylase), polypeptide 1	19.3	0.00807
H80901	2005	Hs.272576	ficollin (collagen/fibrinogen domain-containing) 3 (Hakata antigen)	18.6	0
M28673	2318	Hs.1360	cytochrome P450, subfamily IIB (phenobarbital-inducible)	17.9	0.01469
U56814	3392	Hs.88646	deoxyribonuclease I-like 3	17.7	0.00007
T67931	3183	Hs.7645	fibrinogen, B beta polypeptide	17.3	0.00128
K03192	2127	Hs/183584	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6	14.2	0.0307
AA448002	1113	Hs.23759	putative type II membrane protein	14.1*	0

Table 4A. Top Fifteen Genes Overexpressed in Metastatic Carcinomas in the Liver

Accession #	SEQ ID	UniGene Cluster	Gene Name	Fold Change	Pvalue
AA427468	973	Hs.5372	Claudin 4	84.4*	0
H58873	1961	Hs.169002	Solute carrier family 2 (facilitated glucose transporter), member 3	58.0*	0.00063
AA421552	934	Hs.91011	Anterior gradient 2 (Xenopus laevis) homolog	55.3*	0.0041
AA100719	212	Hs.73848	Carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	50.9*	0.00081
AA335191	741	Hs.173724	Creatine kinase, brain	47.4*	0.00419
H55233	2048	Hs.31439	Serine protease inhibitor, Kunitz type, 2	47.1	0
H94471	2042	Hs.171952	Occludin	43.1	0
X93036	3827	Hs.92323	FXD domain-containing ion transport regulator 3	42.4*	0.00167
AA156243	340	Hs.154737	Serine protease, unilobal endothelium	41.4*	0.00139
M3552	2343	Hs.84072	Transmembrane 4 superfamily member 3	39.1	0
N92940	2317	Hs.220529	Carcinoembryonic antigen-related cell adhesion molecule 5	36.6*	0.0116
N92934	2724	Hs.17409	Cysteine-rich protein 1 (intestinal)	35.5	0.002
AA610116	1499	Hs.102737	Tetraspan NET-6 protein	33.7	0.00171
HG2788-HT2896		Hs.27258	Calcyon binding protein	33.2	0
AA423009	994	Hs.233950	Serine protease inhibitor, Kunitz type 1	30.0*	0.00001

Table 4B. Top Fifteen Genes that are Underexpressed in Metastatic Carcinomas in the Liver

Accession #	SEQ ID:	UniGene Cluster	Gene Name	Fold Change	Pvalue
N54417	2566	Hs.30765	Fibrinogen, A alpha polypeptide	99.3	0.00001
N53031	2555	Hs.89691	UDP glycosyltransferase 2 family, polypeptide B4	97.6	0.00022
M15656	2268	Hs.234234	Aldolase B, fructose-bisphosphate	96.7*	0
T59148	3157	Hs.50666	Carbamoyl-phosphate synthetase 1, mitochondrial	88.9*	0
R19459	2881	Hs.63758	Transferrin receptor 2	85.6	0.00048
X55283	3731	Hs.1259	Asialoglycoprotein receptor 2	85.0	0.00084
L16983	2166	Hs.167529	Cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 9	84.7	0.00327
T48039	3128	Hs.2351	Protein C (inactivator of coagulation factors Va and VIIIa)	84.4	0.00112
H5892	1960	Hs.9520	Formyltetrahydrofolate dehydrogenase	81.4*	0
M81349	2404	Hs.1955	Serum amyloid A4, constitutive	76.2	0.00015
R43174	2847	Hs.1898	Paraoxonase 1	74.0*	0.00038
M15594	2272	Hs.89552	glutathione S-transferase A2	73.2*	0
U22029	3326	Hs.250615	Cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7	72.0*	0
A4256367	579	Hs.107966	Paraoxonase 3	70.3	0.00192
K03192	2127	Hs.183584	Cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6	69.9*	0

Table 5. Top Fifteen Genes Expressed in Both Hepatocellular Carcinomas and Metastatic Liver Tumors, not in Normal Liver Tissue

Accession #	SEQ ID:	Unigene Cluster	Gene Name	HCC Fold Change	HCC p value	Metastatics Fold Change	Metastatic p value
Y00705	3847	Hs.181266	serine protease inhibitor, Kazal type 1	28.9	0.00003	9.8	0.03897
A4610116	1439	Hs.102737	tetraspan NET-6 protein	16.4	0.00249	33.7	0.00171
A405586	135	Hs.148428	collagen, type V, alpha 1	10.9	0.00907	18.2	0.00146
J03494	2084	Hs.179573	collagen, type I, alpha 2	10.4	0.00979	9.8	0.00028
M64250	2425	Hs.82045	midkine (neurite growth-promoting factor 2)	9.9	0.02104	10.4	0.01518
A4620881	1510	Hs.21858	trideotide repeat containing 3	9.5	0.00062	8.7	0.00735
D51276	1678	Hs.81915	leukemia-associated phosphoprotein p18 (statmin)	9.4	0.00015	4.8	0.00514
D31094	1639	Hs.109798	G8 protein	9.4	0.0048	4.4	0.04845
A4429472	997	Hs.235522	DKFZ434P106 protein	8.8	0.00063	8.3	0.00208
A4452724	1149	Hs.166468	programmed cell death 5	7.7	0.00085	7.2	0.00908
D26129	1635	Hs.78224	ribonuclease, RNase A family, 1 (pancreatic)	6.9	0.00008	5.7	0.03827
A4434418	1036	Hs.172172	KIPAX115 protein	6.8	0.0032	5.1	0.00498
A4335191	741	Hs.173724	creatine kinase, brain	6.5	0.01462	47.4	0.00419
A4204827	425	Hs.77899	tropomyosin 1 (alpha)	6.1	0.0014	7.1	0.00074
H27188	1908	Hs.9930	collagen-binding protein 2 (collagen 2)	5.8	0.01828	4.2	0.02073

Table 6A, (page 1) Up in Melastatcs vs Normal Sample Set 2

Fragment Name	SEQ ID :	Known Gene Name	Fold Change	Direction	Pvalue
AA427468	973	claudin 4	84.43	up	0
H58873	1961	solute carrier family 2 (facilitated glucose transporter), member 1	57.98	up	0.00063
AA421562	934	anterior gradient 2 (Xenopus laevis) homolog	56.3	up	0.0041
J04423	2109	EST	54.11	up	0.02774
AA100719	212	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reading antigen)	50.88	up	0.00081
AA159525	354	EST	49.39	up	0.00062
J04423	2109	EST	48.05	up	0.02203
AA335191	741	creline kinase, brain	47.35	up	0.00419
H65233	2048	serine protease inhibitor, Kunitz type, 2	47.06	up	0
N22015	2447	EST	46.61	up	0.00025
M18728	2285	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reading antigen)	44.82	up	0.00291
AA211483	435	EST	44.07	up	0.00175
H94471	2042	occludin	43.09	up	0
N54841	2571	EST	42.96	up	0.00002
AA055805	132	EST	42.83	up	0.00142
X93036	3827	FXYD domain-containing ion transport regulator 3	42.36	up	0.00167
AA155243	340	serine protease, umbilical endothelium	41.44	up	0.00139
R33498	2819	EST	41.34	up	0.00001
AA291168	696	EST	40.67	up	0.00065
M3252	2343	transmembrane 4 superfamily member 3	39.12	up	0
AA398908	801	EST	38.69	up	0.01089
AA424487	945	EST	38.41	up	0.00002
M29540	2317	carcinoembryonic antigen-related cell adhesion molecule 5	36.57	up	0.0116
N92834	2724	cysteine-rich protein 1 (intestinal)	35.52	up	0.002
AA075289	164	EST	34.27	up	0.00002
AA610116	1499	tetraspan NET-6 protein	33.68	up	0.00171
HG2788-HT2896	3649	calyculin binding protein	33.15	up	0
W92449	3092	EST	31.67	up	0.00011
T26366	994	serine protease inhibitor, Kunitz type 1	30.43	up	0.00153
AA429009	208	EST	29.07	up	0.00001
AA099404				up	0

Table 6A. (page 2) Up in Metastatics vs Normal Sample Set 2

AA011134	29	EST		28.79	up	0.00602
W72276	3580	EST		27.39	up	0.00183
M57710	2357	lecitin, galactoside-binding, soluble, 3 (galectin 3)		27.12	up	0.00001
AA053102	125	cadherin 17, LI cadherin (liver-intestine)		26.63	up	0.01745
W95477	3661	EST		26.51	up	0.00161
M27826	2313	endogenous retroviral protease		26.36	up	0.00342
AA157818	349	endogenous retroviral protease		25.99	up	0.00153
AA372630	769	differentially expressed in hematopoietic lineages		25.49	up	0.01743
T03580	3045	pyruvate kinase, muscle		24.91	up	0.0001
AA463861	1251	EST		24.79	up	0.00096
AA101551	216	EST		24.78	up	0
AA284879	679	EST		24.68	up	0.00001
AA213696	437	poly(A)-binding protein, cytoplasmic 1		24.65	up	0.00001
AA394121	778	laminin receptor 1 (67KD, ribosomal protein SA)		23.78	up	0.00099
AA234096	479	EST		23.72	up	0.00018
AA156187	339	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1		23.24	up	0.00006
X56494	3735	pyruvate kinase, muscle		22.97	up	0.00001
F09394	1803	KIAA0715 protein		22.89	up	0.01753
M94345	2428	capping protein (actin filament), gelsolin-like		22.38	up	0.00003
AA428964	993	kalikrein 10		21.83	up	0.02324
J04423	2109	EST		21.46	up	0.04283
L08044	2149	trefol factor 3 (intestinal)		21.42	up	0.01674
AA405791	864	EST		21.22	up	0
L17131	2168	high-mobility group (nonhistone chromosomal) protein isoforms I and Y		20.57	up	0.00058
AA233959	477	EST		19.69	up	0.00101
AA427636	976	EST		19.23	up	0.00145
U76095	3429	serine protease inhibitor, Kunitz type, 2		18.85	up	0
AA161043	356	latraspan 1		18.8	up	0.00015
D38563	1656	S100 calcium-binding protein A11 (calgizarin)		18.7	up	0.00003
AA055896	135	collagen, type V, alpha 1		18.16	up	0.00146
AA143763	311	EST		18.09	up	0.00347
AA171760	367	EST		17.86	up	0
H18442	1891	creatine kinase, brain		17.42	up	0.02391
AA422150	939	cytochrome P450 family member predicted from ESTs		17.14	up	0.00108

Table 6A, (page 3) Up in Melastatics vs Normal Sample Set 2

AA158234	351	EST		17.04	up	0.00711
AA42054	1067	phospholipase C, gamma 1 (formerly subtype 14b)		16.89	up	0.00205
AA430032	1009	pituitary tumor-transforming 1		16.87	up	0.00659
AA251289	541	KIAA0014 gene product		16.86	up	0.00046
AA331393	739	EST		16.73	up	0.00846
W93726	3653	protease inhibitor 5 (maspin)		16.48	up	0.00014
M93036	2421	membrane component, chromosomal 4, surface marker (35kD glycoprotein)		16.45	up	0.00308
AA411502	889	EST		16.42	up	0.00241
AA410508	885	EST		16.04	up	0.02635
AA053660	128	EST		15.98	up	0.00003
N98464	2743	EST		15.95	up	0.00004
AA215299	439	U6 snRNA-associated Sm-like protein LSM7		15.84	up	0.00001
M27830	2314	EST		15.53	up	0.00022
AA131819	270	putative type II membrane protein		15.36	up	0.00027
T24088	3087	EST		15.26	up	0.00046
AA253473	567	EST		15.23	up	0.00171
W42957	3513	calmodulin 2 (phosphorylase kinase, delta)		15.22	up	0.00007
AA430674	1018	EST		15.11	up	0.00293
M38591	2350	S100 calcium-binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11))		14.87	up	0
M27830	2314	EST		14.86	up	0.00043
AA485697	1346	EST		14.74	up	0.00102
AA451676	1135	EST		14.72	up	0.00056
X68314	3775	glutathione peroxidase 2 (gastrointestinal)		14.4	up	0.00222
AA372018	768	EST		14.3	up	0.00178
AA135894	295	retinoic acid induced 3		14.27	up	0.00558
Y00503	3846	keratin 19		14.19	up	0.00217
L08044	2149	trefoil factor 3 (intestinal)		14.18	up	0.02124
AA161292	357	interferon, alpha-inducible protein 27		13.84	up	0.00004
AA412405	901	EST		13.82	up	0.01021
C01766	1559	EST		13.67	up	0.00003
AA262943	611	EST		13.42	up	0.00234
U09770	3295	cysteine-rich protein 1 (intestinal)		13.03	up	0.0072
AA227560	458	EST		12.81	up	0.01693

Table 6A. (page 4) Up in Melastatics vs Normal Sample Set 2

M16364	2269	creatine kinase, brain	12.69	up	0.03633
X57348	3741	stratfin	12.53	up	0.0013
AA429880	1004	cisplatin resistance associated	12.51	up	0.00053
J04164	2108	interferon induced transmembrane protein 1 (9-27)	12.37	up	0.00001
X68614	3764	S100 calcium-binding protein P	12.2	up	0.00065
AA134968	289	EST	12.11	up	0.00079
AA134985	290	EST	12.11	up	0.00318
J05257	2118	dipeptidase 1 (renal)	12.02	up	0.02099
T23490	3081	EST	11.86	up	0.03242
N49284	2536	v-myb avian myeloblastosis viral oncogene homolog	11.82	up	0.01981
X76180	3792	sodium channel, nonvoltage-gated 1 alpha	11.68	up	0
AA290674	692	eukaryotic translation initiation factor 4E binding protein 1	11.59	up	0.00036
M10098	2231	EST	11.55	up	0.00099
AA447687	1104	EST	11.42	up	0.0362
D00017	1587	annexin A2	11.38	up	0
H20989	1899	pyruvate kinase, muscle	11.37	up	0.0375
AF003521	1545	jagged 2	11.26	up	0.00008
AA126044	245	EST	11.23	up	0.00041
R95966	2996	EST	11.22	up	0.00682
AA258642	562	EST	11.17	up	0.00035
AA497031	1407	EST	11.05	up	0.04381
R92994	2989	matrix metalloproteinase 12 (macrophage elastase)	11.05	up	0.00248
L33842	2197	IMP (inosine monophosphate) dehydrogenase 2	11.03	up	0.00001
AA026030	53	EST	11.01	up	0.01849
R49476	2892	EST	10.95	up	0.00014
AA404338	849	EST	10.9	up	0.00668
W95348	3660	HSPC113 protein	10.89	up	0.01065
M12125	2241	tropomyosin 2 (beta)	10.83	up	0.00191
U07969	3288	cadherin 17, LI cadherin (liver-intestine)	10.78	up	0.02002
AA338889	745	actin related protein 2/3 complex, subunit 4 (20 kD)	10.77	up	0.03782
AA460017	1225	EST	10.76	up	0.00106
K03195	2128	solute carrier family 2 (facilitated glucose transporter), member 1	10.73	up	0.00139
AA422086	938	EST	10.71	up	0.03418
T53404	3142	EST	10.68	up	0.00582
M27630	2314	EST	10.64	up	0.00213

Table 6A, (page 5) Up in Melastatics vs Normal Sample Set 2

AA113149	226	tumor suppressing subtransferable candidate 3	10.58	up	0.00543
X83228	3807	cadherin 17, LI cadherin (liver-intestine)	10.58	up	0.02147
X12447	3683	aldolase A, fructose-bisphosphate	10.52	up	0.00038
D51112	1675	collapsin response mediator protein 1	10.48	up	0.00076
Z74615	3946	collagen, type I, alpha 1	10.47	up	0.00064
AA429636	1001	hexokinase 2	10.43	up	0.00597
R71395	2951	EST	10.42	up	0.00422
D83735	1747	calponin 2	10.42	up	0.00001
N31570	2485	TNF receptor-associated factor 5	10.39	up	0.00018
T95057	3258	EST	10.39	up	0.00003
M64250	2425	midkine (neurite growth-promoting factor 2)	10.39	up	0.01818
M10098	2231	EST	10.2	up	0.00027
M24485	2304	glutathione S-transferase pi	10.2	up	0.00003
AA060013	1477	dipeptidase 1 (renal)	10.17	up	0.00109
J03592	2096	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6	10.05	up	0
AA001504	2	EST	9.98	up	0.00336
H8551	2024	EST	9.94	up	0.00137
AA008897	1473	EST	9.92	up	0.00087
X89960	3815	EST	9.87	up	0
Y00705	3847	serine protease inhibitor, Kazal type 1	9.83	up	0.03697
J03464	2094	collagen, type I, alpha 2	9.81	up	0.00028
M27830	2314	EST	9.8	up	0.00041
AA132986	275	EST	9.72	up	0.00552
X67325	3772	interferon, alpha-inducible protein 27	9.67	up	0.03245
AA280734	639	KIAA0618 gene product	9.64	up	0.00003
N46423	2520	EST	9.64	up	0.00027
T03313	3041	dyskeratosis congenita 1, dyskerin	9.63	up	0.00001
AA188378	392	EST	9.56	up	0.00271
AA428172	986	Notch (Drosophila) homolog 3	9.53	up	0.02562
AA454908	1171	KIAA0144 gene product	9.3	up	0.00539
N39237	2510	EST	9.29	up	0.00001
AA113936	284	EST	9.19	up	0.00088
AA235707	500	EST	9.17	up	0.00005
L33930	2198	CD24 antigen (small cell lung carcinoma cluster 4 antigen)	9.16	up	0.01252

Table 6A. (page 6) Up in Metastatics vs Normal Sample Set 2

H97013	2059	ephrin-A4	9.14	up	0.00346
AA084901	181	ribosomal protein S6 kinase, 70kD, polypeptide 2	9.13	up	0.00003
M36690	2351	CD9 antigen (p24)	9.08	up	0.00059
W78057	3597	EST	9.06	up	0.0034
N72116	2687	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	9.01	up	0.00051
R91819	2983	EST	8.95	up	0.00009
Z39191	3898	EST	8.84	up	0.00111
AA116036	233	chromosome 20 open reading frame 1	8.81	up	0.00133
M27830	2314	EST	8.78	up	0.00003
AA053424	127	EST	8.76	up	0.01775
AA243173	526	EST	8.75	up	0.00003
AA291139	695	EST	8.69	up	0.04573
AA424029	943	EST	8.68	up	0.00081
L09604	2151	proteolipid protein 2 (colonic epithelium-enriched)	8.68	up	0
AA620881	1510	trinucleotide repeat containing 3	8.66	up	0.00735
AA435665	1040	EST	8.66	up	0.00001
AA451877	1138	EST	8.63	up	0.00489
U79725	3437	glycoprotein A33 (transmembrane)	8.57	up	0.00299
AA43969	101	tropomyosin 4	8.54	up	0.00222
D80946	1737	SFRS protein kinase 1	8.53	up	0.00455
L21954	2177	benzodiazepine receptor (peripheral)	8.53	up	0.00001
X54667	3728	cystatin S, crystalin SN	8.53	up	0.00059
U47025	3367	phosphorylase, glycogen; brain	8.52	up	0.00134
N62126	2588	EST	8.51	up	0.00016
N73808	2678	EST	8.46	up	0.01886
HG371-HT26388		mucin 1, transmembrane	8.44	up	0.00268
T30193	3087	protease, serine, 8 (prolactin)	8.39	up	0.00043
M32886	2335	sorcin	8.35	up	0.00215
U73379	3417	ubiquitin carrier protein E2-C	8.32	up	0.00101
AA429472	997	DKFZP434P106 protein	8.27	up	0.00208
AA406542	878	EST	8.27	up	0.00724
F04674	1793	KIAU0746 protein	8.2	up	0.00028
M27830	2314	EST	8.2	up	0.00294
T03438	3042	EST	8.18	up	0.00032

Table 6A. (page 7) Up in Metastatics vs Normal Sample Set 2

R56095	2905	EST		8.16	up	0.00023
AA461187	1236	EST		8.15	up	0.00068
S78187	3035	cell division cycle 25B		8.07	up	0.00009
T33489	3104	EST		8.04	up	0.00469
R02036	2753	EST		8.01	up	0.01012
AA295819	722	EST		8	up	0.01793
AA282247	657	EST		8	up	0.00014
U09117	3293	phospholipase C, delta 1		7.96	up	0.00001
AA479797	1316	EST		7.93	up	0.00006
J04469	2111	creatine kinase, mitochondrial 1 (ubiquitous)		7.9	up	0.00705
Z39429	3903	EST		7.84	up	0.00045
AA053033	124	EST		7.83	up	0.00379
Z40945	3924	trinucleotide repeat containing 15		7.82	up	0.00007
R45994	2866	EST		7.81	up	0.0018
F04531	1791	Kell blood group precursor (McLeod phenotype)		7.79	up	0.03205
AA425852	958	EST		7.78	up	0.00239
R48447	2870	EST		7.75	up	0.00049
AA243133	525	serine/threonine kinase 15		7.73	up	0.04328
AA074514	160	EST		7.69	up	0
AA292788	714	EST		7.69	up	0.00967
AA433930	1032	chondroin 4-sulfotransferase		7.68	up	0.02445
Z23090	3865	heat shock 27KD protein 1		7.67	up	0.00008
AA196790	421	EST		7.64	up	0.00287
F13809	1828	tropomyosin 1 (alpha)		7.62	up	0.00012
U21049	3324	epithelial protein up-regulated in carcinoma, membrane associated protein 17		7.53	up	0.01667
K03460	2129	tubulin, alpha 1 (testis specific)		7.5	up	0.00002
D13839	1607	cyclin D2		7.49	up	0.01641
M31303	2327	leukemia-associated phosphoprotein p18 (stathmin)		7.48	up	0.00021
N69263	2647	EST		7.47	up	0.00004
AF001294	1544	tumor suppressing subtransferable candidate 3		7.45	up	0.00009
U01062	3272	inositol 1,4,5-triphosphate receptor, type 3		7.41	up	0
AA463725	1249	mannosyl (alpha-1,6)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase		7.4	up	0.04715
AA403159	845	Ste-20 related kinase		7.33	up	0.00187

Table 6A, (page 8) Up in Metastasis vs Normal Sample Set 2

M86762	2411	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)	7.32	up	0.00001
W38044		myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog);			
X04347	3677	heterologous to, 7	7.28	up	0.03105
A4452724	1149	heterogeneous nuclear ribonucleoprotein A1	7.26	up	0.00018
AA151428	335	programmed cell death 5	7.2	up	0.00908
R38239	2829	matrix metalloproteinase 23B	7.15	up	0.00056
AA2092765	712	EST	7.14	up	0.00249
AA204927	425	ZW10 interactor	7.14	up	0.02623
D80710	1734	tropomyosin 1 (alpha)	7.09	up	0.00074
AB006781	1540	integral type I protein	7.08	up	0.00213
S54005	3019	lectin, galactoside-binding, soluble, 4 (galectin 4)	7.05	up	0.00913
AA053248	126	thymosin, beta 10	7.03	up	0.00334
AA610053	1496	EST	7.01	up	0.00003
N71781	2685	EST	7.01	up	0.00003
M14189	2288	laminin receptor 1 (67kD, ribosomal protein SA)	7.01	up	0.02952
M55998	2356	collagen, type I, alpha 1	7.01	up	0
T32108	3102	EST	6.99	up	0.00103
AA479044	1307	EST	6.96	up	0.00723
AA448073	1117	EST	6.9	up	0.04668
N22107	2448	EST	6.89	up	0.01445
AA055811	133	glycoprotein A33 (transmembrane)	6.88	up	0.04259
AA228932	453	DKFZP564F0923 protein	6.86	up	0.02152
AA131584	268	DKFZP564O0463 protein	6.84	up	0.00405
R56880	2908	EST	6.83	up	0.00025
AA227928	460	EST	6.82	up	0.02559
U42408	3360	lactinin 1	6.81	up	0.01701
F01444	1770	KIAA0440 protein	6.8	up	0.00305
AA119217	923	DKFZP586E1422 protein	6.78	up	0.00028
W82207	3648	EST	6.77	up	0.00045
Z41740	3932	EST	6.76	up	0.00002
AA411813	893	postmeiotic segregation increased 2-like 11	6.76	up	0.00049
AA053007	123	putative receptor protein	6.76	up	0.03499
AA599522	1452	squamous cell carcinoma antigen recognised by T cells	6.75	up	0.00061
L11689	2157	tetracycline transporter-like protein	6.75	up	0.04229
					0.00101

Table 6A. (page 9) Up in Melastatics vs Normal Sample Set 2

H78211	2001	EST		6.73	up	0.02486
W81540	3611	serine/threonine kinase 24 (Ste20, yeast homolog)		6.72	up	0.00164
R69700	2942	EST		6.71	up	0.0021
AA406145	870	EST		6.71	up	0.00047
X79882	3802	lung resistance-related protein		6.71	up	0.0362
N73762	2677	EST		6.65	up	0.0023
AA429825	1003	DKFZP566B023 protein		6.63	up	0.00032
D55716	1686	minichromosome maintenance deficient (S. cerevisiae) 7		6.6	up	0.00151
AA127712	255	EST		6.59	up	0.03706
W80730	3604	EST		6.59	up	0.00425
Z38266	3883	EST		6.58	up	0.01909
D83763	1748	trunculoide repeat containing 11 (THR-associated protein, 230 kDa subunit)		6.55	up	0.00176
Z28407	3873	ribosomal protein L8		6.53	up	0.00004
AA078662	173	EST		6.52	up	0.00025
AA609614	1487	EST		6.5	up	0.00406
HG2797-HT2906		clathrin, light polypeptide (Lcb)		6.5	up	0.00013
X64364	3761	basigin		6.45	up	0.00041
AA179787	380	polyglutamine binding protein 1		6.44	up	0.00206
R61287	2919	eukaryotic translation initiation factor 3, subunit 6 (48kD)		6.42	up	0.00126
C13992	1554	EST		6.39	up	0.00059
AA148885	320	minichromosome maintenance deficient (S. cerevisiae) 4		6.39	up	0.0125
D28124	1636	neuroblastoma candidate region, suppression of tumorigenicity 1		6.38	up	0.00015
L19605	2170	annexin A11		6.38	up	0.00017
AB002533	1539	karyopherin alpha 4 (importin alpha 3)		6.38	up	0.00003
R70801	2949	EST		6.36	up	0.00563
N47956	2523	eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD)		6.34	up	0.00251
L41351	2214	protease, serine, 8 (prolactin)		6.34	up	0.01132
D63486	1712	KIAA0152 gene product		6.33	up	0.00078
HG1153-HT1153		non-melastatic cells 2, protein (NM23B) expressed in		6.31	up	0
AA410469	883	EST		6.3	up	0.00103
AA424881	949	EST		6.3	up	0.00556
AA449456	1126	EST		6.29	up	0.00087
AA430048	1012	KIAA0160 protein		6.27	up	0.00631
X99133	3839	lipocalin 2 (oncogene 24p3)		6.27	up	0.0453

Table 6A. (page 10) Up in Metastatics vs Normal Sample Set 2

R79580	2969	EST		6.25	up	0.00593
AA028132	62	EST		6.25	up	0.00646
N66824	2617	homolog of mouse quaking QKI (KH domain RNA binding protein)		6.25	up	0
AA010085	22	CDC28 protein kinase 2		6.25	up	0.02752
M27830	2314	EST		6.25	up	0.00046
W90146	3641	EST		6.23	up	0.01558
AA062721	146	nuclear factor (erythroid-derived 2)-like 1		6.2	up	0.00024
R96924	3000	EST		6.18	up	0.03417
L23808	2179	matrix metalloproteinase 12 (macrophage elastase)		6.18	up	0.02195
AA053248	126	EST		6.16	up	0.00191
AA453783	1158	EST		6.16	up	0.00167
AA478300	1298	CD39-like 2		6.15	up	0.01625
N26186	2467	EST		6.15	up	0.00135
AA425279	951	quiescin Q6		6.15	up	0.00083
AA441911	1086	EST		6.14	up	0.00003
U93205	3460	chloride intracellular channel 1		6.14	up	0.00058
W67251	3567	EST		6.13	up	0.01463
D87953	1765	N-myc downstream regulated secreted phosphoprotein 1 (osteopontin, bone sialoprotein 1, early T-lymphocyte activation 1)		6.12	up	0.00033
U20758	3322	annexin A2,annexin A2 pseudogene 2		6.12	up	0.03448
M62895	2375	collagen, type XVII, alpha 1		6.11	up	0.00013
AA128561	261	ribosomal protein S28		6.09	up	0.0433
U56692	3395	EST		6.09	up	0.00001
AA479727	1315	EST		6.06	up	0.00389
N80703	2703	EST		6.06	up	0.00003
AA292377	624	lymphocyte antigen 75		6.05	up	0.01821
AA392379	708	related RAS viral (r-ras) oncogene homolog		6.04	up	0.00568
W74233	3594	EST		6.02	up	0.01815
AA007160	16	EST		6	up	0.01035
H09281	1863	EST		6	up	0.00966
Z41798	3934	EST		6	up	0.00073
R97759	3005	serum/glucocorticoid regulated kinase		5.99	up	0.00221
AA284945	680	EST		5.98	up	0.00026
W49574	3535	EST		5.97	up	0.00045
T32072	3101	EST		5.95	up	0.00029

Table 6A. (page 11) Up in Metastatics vs Normal Sample Set 2

D82568	1746	novel centrosomal protein RanBPM	5.94	up	0.00752
AA463234	1246	KIAA0792 gene product	5.94	up	0.01182
U48705	3369	discoidin domain receptor family, member 1	5.94	up	0.01323
R52161	2892	EST	5.84	up	0.03253
R76782	2962	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-	5.83	up	0.01126
R40254	2839	acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	5.82	up	0.00304
H81413	2007	high-mobility group (nonhistone chromosomal) protein isoforms I and Y	5.82	up	0.00769
H75933	1998	laminin receptor 1 (67kD, ribosomal protein SA)	5.81	up	0.00024
T15473	3057	muscle specific gene	5.81	up	0.02404
M27630	2314	EST	5.78	up	0.0017
AA478017	1295	zyxin	5.77	up	0.00484
AA179845	381	EST	5.77	up	0.01414
AA151778	338	claudin 7	5.77	up	0.00002
U76556	3432	cisplatin resistance associated	5.77	up	0.00241
U51478	3384	ATPase, Na+/K+ transporting, beta 3 polypeptide	5.75	up	0.00007
U73843	3420	E74-like factor 3 (ets domain transcription factor)	5.75	up	0.00017
AA236037	506	EST	5.74	up	0.0091
M60784	2366	small nuclear ribonucleoprotein polypeptide A	5.74	up	0.00126
R44538	2855	EST	5.73	up	0.01015
AA287393	688	EST	5.68	up	0.00062
D26129	1635	ribonuclease, RNase A family, 1 (pancreatic)	5.68	up	0.03827
L76191	2222	interleukin-1 receptor-associated kinase 1	5.66	up	0.00089
N52168	2550	EST	5.65	up	0.00003
D51393	1681	ribosomal protein L4	5.64	up	0.00074
T47325	3124	EST	5.63	up	0.01015
M10098	2231	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein,	5.62	up	0.00251
M86400	2409	zeta polypeptide	5.62	up	0.00016
M10098	2231	EST	5.61	up	0.01238
D11086	1595	interleukin 2 receptor, gamma (severe combined immunodeficiency)	5.61	up	0.00873
AA093497	199	DEK oncogene (DNA binding)	5.6	up	0.02551
AA452536	1145	v-rat simian leukemia viral oncogene homolog A (ras related)	5.6	up	0.00481
AA279840	632	titin-cap (telethonin)	5.58	up	0.01253
N71072	2663	EST	5.57	up	0.03881

Table 6A. (page 12) Up in Metastatics vs Normal Sample Set 2

R06251	2763	tumor protein D52-like 2	5.57	up	0.00037
N66951	2620	EST	5.54	up	0.02442
AA188378	392	cystatin B (stein B)	5.54	up	0.01359
U46892	3366	sulfotransferase family 1A, phenol-prefering, member 3	5.54	up	0.00016
U20499	3320	EST	5.5	up	0.00296
AA287347	687	ribosomal protein S19	5.47	up	0.00034
M81757	2405	immediate early response 3	5.46	up	0
S81914	3037	EST	5.46	up	0.01798
AA262887	610	KIAA0153 protein	5.4	up	0.04719
D53487	1713	mucin 1, transmembrane	5.4	up	0.00027
J05562	2121	3-phosphoglycerate dehydrogenase	5.39	up	0.00056
T23516	3082	EST	5.38	up	0.00001
AA181600	384	regulator of nonsense transcripts 1	5.38	up	0.03316
H99473	2077	EST	5.37	up	0.00177
AA458254	1211	MLN51 protein	5.36	up	0.0259
C14756	1570	EST	5.36	up	0.00001
M10098	2231	EST	5.35	up	0.00186
AA485405	1343	EST	5.35	up	0.03475
N69252	2646	ferritin, light polypeptide	5.33	up	0.01554
HG1612-HT1612		MARCKS-like protein	5.32	up	0.00007
M20471	2289	clathrin, light polypeptide (Lca)	5.32	up	0.00344
AA126719	250	EST	5.31	up	0.00026
T16308	3068	EST	5.29	up	0.00119
A4335091	740	EST	5.28	up	0.0009
AA189015	394	EST	5.27	up	0.00004
AA450247	1133	protein phosphatase 1, catalytic subunit, alpha isoform	5.27	up	0.02833
HG1614-HT1614		macrophage migration inhibitory factor (glycosylation-inhibiting factor)	5.27	up	0.00257
L19686	2171	membrane component, chromosome 1, surface marker 1 (40kD glycoprotein, identified by monoclonal antibody GA733)	5.26	up	0.00562
J04152	2107	ribosomal protein S10	5.26	up	0.02466
U14972	3306	copine 1	5.24	up	0.00077
AA455388	1215	cleavage and polyadenylation specific factor 4, 30kD subunit	5.23	up	0.00691
T16983	3073	EST	5.23	up	0.00075
C15324	1574	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9 (39kD)	5.22	up	0.00344
L04490	2137		5.22	up	0.02182

Table 6A. (page 13) Up in Metastatics vs Normal Sample Set 2

AA231137	684	EST	protein similar to E.coli yhdg and R. capsulatus nifR3	5.21	up	0.00685
R38511	2831	EST		5.19	up	0.00015
R06866	2773	EST		5.18	up	0.00187
D20806	1627	EST		5.18	up	0.02189
H05625	1847	EST		5.17	up	0.04551
AA011383	31	EST	ubiquitin-conjugating enzyme E2 variant 1	5.17	up	0.00008
N20198	2439	EST		5.17	up	0.00508
AA490494	1377	EST	protease inhibitor 6 (placental thrombin inhibitor)	5.16	up	0.01696
S69272	3027	EST	BUB3 (budding uninhibited by benzimidazoles 3, yeast) homolog	5.15	up	0.00003
AA471278	1277	EST		5.14	up	0.00873
AA026150	55	EST	kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))	5.14	up	0.01072
AA086232	186	EST		5.14	up	0.01916
AA630466	1502	EST		5.14	up	0.00004
X17206	3715	EST	ribosomal protein S2	5.14	up	0
J04423	2109	EST	BALF-associated protein 3	5.13	up	0.02791
W92608	3650	EST	KIAA1115 protein	5.12	up	0.00075
AA434418	1036	EST	putative type II membrane protein	5.12	up	0.00498
AA482319	1335	EST		5.11	up	0.00177
AA248819	535	EST	cyclin B2	5.09	up	0.00136
AA442763	1072	EST	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform	5.09	up	0.02168
T26513	3094	EST		5.07	up	0.0016
H09271	1862	EST	collagen, type I, alpha 2	5.06	up	0.0016
H88674	2021	EST		5.06	up	0.00866
X98482	3838	EST	gamma-aminobutyric acid (GABA) B receptor, 1	5.03	up	0.00002
H43286	1929	EST		5.02	up	0.01972
AA364267	762	EST		5.01	up	0.00255
AA464963	1265	EST		5.01	up	0.00107
AA147439	315	EST	calpain, large polypeptide L1	5.01	up	0.00336
T15442	3056	EST		5.01	up	0.00255
N77947	2897	EST	ribosomal protein L12	5	up	0.00117
L06505	2142	EST		5	up	0.00163
AA280283	637	EST		4.99	up	0.02644
AA447891	1112	EST		4.99	up	0.00173

Table 6A. (page 14) Up in Metastatics vs Normal Sample Set 2

AA464414	1258	EST		4.99	up	0.00529
AA075580	165	EST		4.98	up	0.02083
U17077	3313	BENE protein		4.98	up	0.00366
AA476216	1279	EST		4.97	up	0.00359
AA132554	273	EST		4.96	up	0.02076
AA504270	1411	EST		4.96	up	0.01919
R48589	2873	EST		4.95	up	0.01346
R58974	2909	EST		4.95	up	0.00498
AA283085	667	EST		4.93	up	0.00382
AA489712	1372	EST		4.93	up	0.00726
AA498981	1404	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3		4.93	up	0.01096
D14520	1613	basic transcription element binding protein 2		4.93	up	0.00004
AA402495	838	EST		4.91	up	0.00235
U15008	3308	small nuclear ribonucleoprotein D2 polypeptide (16.5kD)		4.9	up	0.00396
AA406218	872	EST		4.88	up	0.02194
AA482127	1333	protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs		4.88	up	0.00017
M79463	2401	promyelocytic leukemia		4.88	up	0.01821
AA146619	312	EST		4.87	up	0.00863
AA262477	608	ribonuclease H1, large subunit		4.87	up	0.00005
AA121315	237	KIAA1077 protein		4.86	up	0.02438
H38568	1918	EST		4.86	up	0.00003
AA306121	729	EST		4.85	up	0.00381
D51133	1676	tubulin, beta, 4		4.84	up	0.02875
W02041	3485	EST		4.83	up	0.00158
T55004	3145	EST		4.83	up	0.00156
Z74616	3947	collagen, type I, alpha 2		4.83	up	0.02364
X17093	3713	EST		4.82	up	0.00176
D51276	1678	leukemia-associated phosphoprotein p18 (slathmin)		4.81	up	0.00514
M77349	2399	transforming growth factor, beta-induced, 68kD		4.81	up	0.00546
AA425852	958	EST		4.8	up	0.03874
R22565	2799	EST		4.8	up	0.0424
M10098	2231	EST		4.79	up	0.00328
D13413	1604	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)		4.79	up	0.00092
H46486	1932	nesca protein		4.77	up	0.00421
U51095	3381	caudal type homeo box transcription factor 1		4.76	up	0.02664

Table 6A. (page 15) Up in Metastatics vs Normal Sample Set 2

AA609786	1491	nuclear protein 1 (120kD)	4.75	up	0.00261
AA251230	540	EST	4.75	up	0.00054
AA459703	1222	v-myc avian myelocytomatosis viral oncogene homolog	4.75	up	0.02413
AA131084	265	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3	4.74	up	0.00427
D50914	1673	PCAO124 protein	4.74	up	0.00752
T35341	3111	EST	4.73	up	0.00057
AA253011	558	KIAA0713 protein	4.73	up	0.01944
X74929	3769	keratin 8	4.73	up	0.00018
D25580	1634	EST	4.72	up	0.00661
X62535	3753	diacylglycerol kinase, alpha (80kD)	4.72	up	0.00315
X66899	3769	Ewing sarcoma breakpoint region 1	4.72	up	0.00011
X68668	3777	zinc finger protein 33a (KOX 31)	4.7	up	0.00062
AB000584	1533	prostate differentiation factor	4.7	up	0.00071
AA293719	720	EST	4.69	up	0.02181
R39191	2833	KIAA1020 protein	4.69	up	0.00456
AA598405	1424	membrane interacting protein of RGS16	4.69	up	0.0122
U12465	3299	ribosomal protein L35	4.69	up	0.00001
AA405715	862	hypothetical protein	4.68	up	0.00898
AA131182	266	EST	4.68	up	0.00042
U78525	3431	eukaryotic translation initiation factor 3, subunit 9 (ela, 116kD)	4.68	up	0.00132
AA171939	368	EST	4.67	up	0.00704
M10098	2231	EST	4.66	up	0.00405
AA298786	727	EST	4.65	up	0.02821
N93798	2757	protein tyrosine phosphatase type IVA, member 3	4.65	up	0.00118
R06254	2764	tumor protein D52-like 2	4.64	up	0.00039
L20591	2173	annexin A3	4.64	up	0.00065
U14969	3303	ribosomal protein L28	4.63	up	0.00004
AA482224	1334	putative type II membrane protein	4.62	up	0.0105
T28471	3093	EST	4.62	up	0.01091
R70005	2943	EST	4.61	up	0.00037
HG3548-HT3749		cut (Drosophila)-like 1 (CCAAT displacement protein)	4.61	up	0.00824
H43646	1930	H2A histone family, member Y	4.6	up	0.00147
AA455521	1178	E2F transcription factor 5, p130-binding	4.6	up	0.00773
H05525	1846	hypothetical protein	4.6	up	0.0033
S56151	3020	milk tat globule-EGF factor 8 protein	4.59	up	0.0091

Table 6A. (page 16) Up in Metastatics vs Normal Sample Set 2

AA143493	310	pleckstrin 2 (mouse) homolog	4.58	up	0.01037
F04444	1788	EST	4.57	up	0.01132
AA412301	899	EST	4.57	up	0.00026
D31417	1645	secreted protein of unknown function	4.56	up	0.00014
AA025277	51	EST	4.56	up	0.03136
AA478415	1299	EST	4.56	up	0.00095
HG3364-HT3541			4.55	up	0.00005
M24194	2302	ribosomal protein L37	4.55	up	0.00017
AA261907	603	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	4.54	up	0.02289
U04313	3283	DKFZP566E144 protein	4.54	up	0.02986
AA287022	685	protease inhibitor 5 (maspin)	4.51	up	0.02582
M34182	2340	thymidine kinase 1, soluble	4.51	up	0.00043
D38548	1655	protein kinase, cAMP-dependent, catalytic, gamma	4.5	up	0.00036
X68150	3779	KIAA0076 gene product	4.5	up	0.00003
AA262969	613	ribosomal protein S18	4.49	up	0.00013
M22960	2296	ferritin, heavy polypeptide 1	4.49	up	0.00898
AA094752	203	protective protein for beta-galactosidase (galactosialidosis)	4.47	up	0.00243
J04423	2109	hypothetical 43.2 Kd protein	4.47	up	0.02754
T98284	3267	EST	4.47	up	0.00054
HG2873-HT3017			4.47	up	0.00009
Z24727	3868	ribosomal protein L30	4.47	up	0.00121
U75285	3421	tropomyosin 1 (alpha)	4.46	up	0.02212
M14483	2261	apoptosis inhibitor 4 (survivin)	4.46	up	0.00686
J03827	2100	prothymosin, alpha (gene sequence 28)	4.45	up	0.00015
X15940	3706	nuclease sensitive element binding protein 1	4.45	up	0.00004
N31597	2486	ribosomal protein L31	4.44	up	0.00085
N21359	2441	DKFZP564G2022 protein	4.43	up	0.00078
Z26876	3871	EST	4.43	up	0.00022
N39099	2507	ribosomal protein L38	4.43	up	0.00643
N39254	2511	EST	4.42	up	0.00478
T77733	3218	tubulin, gamma 1	4.42	up	0.00049
D31094	1639	G8 protein	4.41	up	0.04845
AA482546	1336	KIAA0124 protein	4.41	up	0.00604
N70903	2661	EST	4.41	up	0.0078
AA070827	157	EST	4.41	up	0.01902

Table 6A. (page 17) Up in Metastatics vs Normal Sample Set 2

Z25749	3869	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2	4.41	up	0.00031
N68921	2638	EST	4.4	up	0.00989
T23465	3080	EST	4.4	up	0.017
AA147084	314	proliferation-associated 2G4, 38kD	4.4	up	0.0045
W52858	3542	DKFZP564F0522 protein	4.38	up	0.00088
R49395	2880	EST	4.38	up	0.00112
D53139	1684	ribosomal protein S28	4.38	up	0.0009
H18412	1890	isocitrate dehydrogenase 3 (NAD+) gamma	4.37	up	0.00262
U25789	3333	ribosomal protein L21	4.37	up	0.00045
J04423	2109	EST	4.35	up	0.01245
AA236714	516	nuclear mitotic apparatus protein 1	4.35	up	0.00083
U90913	3458	Tax interaction protein 1	4.35	up	0.00159
L44538	2217	EST	4.34	up	0.04319
L06499	2141	ribosomal protein L37a	4.34	up	0.01103
M17886	2282	ribosomal protein, large, P1	4.34	up	0.00004
AA320369	735	chromosome 19 open reading frame 3	4.33	up	0.00554
AA598988	1442	EST	4.32	up	0.00044
R28744	2803	midline 1 (Opitz/BBB syndrome)	4.32	up	0.00532
W44557	3515	chromosome 1 open reading frame 2	4.32	up	0.00128
AA173430	371	EST	4.32	up	0.04362
L34587	2200	transcription elongation factor B (SIII), polypeptide 1 (15kD, elongin C)	4.32	up	0.00287
X08617	3684	ribosomal protein S11	4.32	up	0.0002
W63943	3654	EST	4.3	up	0.00296
AA608579	1464	paired-like homeodomain transcription factor 2	4.29	up	0.04435
W60486	3555	EST	4.29	up	0.00864
L11566	2156	ribosomal protein L18	4.29	up	0.00014
HG1960-HT203		tubulin, beta polypeptide	4.29	up	0.00408
AA122386	239	collagen, type V, alpha 2	4.28	up	0.005
H38240	1916	thrombospondin 2	4.28	up	0.0066
X64707	3752	ribosomal protein L13	4.28	up	0.00257
Y10807	3857	HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2	4.28	up	0.00124
AA070206	155	EST	4.26	up	0.00018
N89670	2708	EST	4.26	up	0.00002
D63880	1715	KIAA0159 gene product	4.26	up	0.00253

Table 6A. (page 18) Up in Metastatics vs Normal Sample Set 2

AA431719	1025	EST		4.25	up	0.00015
Z40583	3919	EST		4.24	up	0.02375
AA426447	965	EST		4.23	up	0.0309
AA453477	1153	X-prolyl aminopeptidase (aminopeptidase P)-like		4.23	up	0.0001
AA276817	618	EST		4.22	up	0.00061
HG2239-HT2324		potassium voltage-gated channel, Shaw-related subfamily, member 3		4.22	up	0.0095
AA033790	74	apolipoprotein D		4.21	up	0.03247
N70678	2659	TAR (HIV) RNA-binding protein 1		4.2	up	0.00119
W45487	3521	dynamitin 2		4.2	up	0.00325
L04483	2136	ribosomal protein S21		4.2	up	0.00057
AA132032	271	trinucleotide repeat containing 1		4.19	up	0.00295
AA287149	654	huntingtin interacting protein-1-related		4.19	up	0.00091
R59352	2914	KIAA0296 gene product		4.19	up	0.00393
D88154	1766	villin-like		4.18	up	0.00051
D59322	1694	ribosomal protein L10a		4.18	up	0.00006
U12404	3298	EST		4.18	up	0.00004
S73885	3031	transcription factor AP-4 (activating enhancer-binding protein 4)		4.18	up	0.00005
AA398205	789	EST		4.17	up	0.00004
H09241	1861	EST		4.17	up	0.00727
HG1800-HT1823		ribosomal protein S20		4.17	up	0.00001
H27188	1908	collagen-binding protein 2 (collagen 2)		4.16	up	0.02073
H56345	1950	EST		4.15	up	0.00488
M17733	2280	thymosin, beta 4, X chromosome		4.15	up	0.00009
U76027	3428	EST		4.15	up	0.00295
AA482613	1338	DKFZP434B203 protein		4.14	up	0.00186
		procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase),				
F09788	1808	alpha polypeptide II		4.14	up	0.00003
R44479	2854	KIAA0552 gene product		4.14	up	0.0181
AA075722	166	nuclear transport factor 2 (placental protein 15)		4.14	up	0.00374
U31556	3345	E2F transcription factor 5, p130-binding		4.14	up	0.01157
AA263044	615	H2A histone family, member Y		4.13	up	0.00024
AA268273	577	EST		4.13	up	0.03874
AA443316	1075	v-Ha-ras Harvey rat sarcoma viral oncogene homolog		4.13	up	0.01729
X80822	3805	ribosomal protein L18a		4.13	up	0.0006
AA224502	451	EST		4.12	up	0.00694

Table 6A. (page 19) Up in Melastatics vs Normal Sample Set 2

AA461476	1243	EST		4.12	up	0.00871
R31107	2811	EST		4.12	up	0.00003
R43952	2852	homeo box B5		4.11	up	0.04316
R36947	2824	calcium channel, voltage-dependent, beta 3 subunit		4.11	up	0.00006
T40849	3115	maternal G10 transcript		4.11	up	0.00449
X14850	3703	H2A histone family, member X		4.11	up	0.00001
AA026356	57	EST		4.1	up	0.00133
D50663	1671	I-complex-associated-testis-expressed 1-like 1		4.09	up	0.00208
X03342	3672	ribosomal protein L32		4.09	up	0.00005
X62691	3754	ribosomal protein S15a		4.09	up	0.00005
R38076	2827	EST		4.08	up	0.00374
Z39079	3897	KIAA1058 protein		4.08	up	0.01781
D57489	1689	chaperonin containing TCP1, subunit 7 (eta)		4.08	up	0.00001
N50048	2541	EST		4.08	up	0.00085
M87339	2414	replication factor C (activator 1) 4 (37kD)		4.07	up	0.00316
C14348	1568	EST		4.06	up	0.00111
H05394	1845	KIAA0266 gene product		4.06	up	0.0015
H97809	2063	EST		4.05	up	0.00111
T47601	3125	EST		4.05	up	0.00878
U62962	3403	eukaryotic translation initiation factor 3, subunit 6 (48kD)		4.05	up	0.0047
T55196	3146	EST		4.04	up	0.00012
AA431873	1028	EST		4.03	up	0.00785
N66139	2614	neurochondrin		4.03	up	0.00118
HG3214-HT3391		ribosomal protein S27 (metallopanstimulin 1)		4.03	up	0.00238
AA405460	857	EST		4.02	up	0.03492
AA236533	514	ecotropic viral integration site 1		4.01	up	0.02882
T91116	3251	EST		4.01	up	0.02721
A034378	77	endogenous retroviral protease		4.01	up	0.00974
D49400	1687	ATPase, vacuolar, 14 kD		4.01	up	0.00287
M32405	2334	ribosomal protein S15		4.01	up	0.00055
U14968	3302	ribosomal protein L27a		4.01	up	0.00003
W31382	3494	EST		4	up	0.00058
D86956	1753	heat shock 105kD		4	up	0.03013
X70040	3785	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)		4	up	0.00402
M13934	2255	ribosomal protein S14		3.99	up	0

Table 6A, (page 20) Up in Melastatics vs Normal Sample Set 2

H53657	1945	adenylate cyclase 3	3.98	up	0.0045
W28362	3487	KIAA0974 protein	3.98	up	0.00626
W20391	3478	kinesin-like 2	3.98	up	0.01788
AA292931	715	EST	3.97	up	0.00067
H13532	1881	ribosomal protein L18a	3.97	up	0.00061
T66935	3178	EST	3.97	up	0.00188
L03411	2134	RD RNA-binding protein	3.97	up	0.00422
AA291456	700	EST	3.96	up	0.03633
AA496245	1398	EST	3.96	up	0.0039
U85773	3448	phosphomannomutase 2	3.94	up	0.00286
F06297	1800	EST	3.94	up	0.0016
H93492	2037	EST	3.94	up	0.01136
U53830	3390	interferon regulatory factor 7	3.94	up	0.03147
		5-aminimidazole-4-carboxamide ribonucleotide formyltransferase/IMP			
D82348	1744	cytohydrolase	3.93	up	0.00037
U14971	3305	ribosomal protein S9	3.93	up	0.00026
X52966	3723	ribosomal protein L35a	3.93	up	0.00217
AF004709	1547	mitogen-activated protein kinase 13	3.92	up	0.0009
D87735	1764	ribosomal protein L14	3.92	up	0.00015
M17885	2281	ribosomal protein, large, P0	3.92	up	0.00003
D63391	1710	platelet-activating factor acetylhydrolase, isoform lb, gamma subunit (29kD)	3.91	up	0.00062
X77588	3796	N-acetyltransferase, homolog of S. cerevisiae ARD1	3.91	up	0.0221
M29277	2316	melanoma adhesion molecule	3.91	up	0.00112
C14412	1589	HSPC038 protein	3.9	up	0.00036
AA215468	441	ADP-ribosylation factor-related protein 1	3.9	up	0.04549
H29565	1913	EST	3.89	up	0.01856
AA234362	481	EST	3.89	up	0.03524
X51521	3718	villin 2 (ezrin)	3.89	up	0.00001
AA253330	562	adaptor-related protein complex 1, gamma 1 subunit	3.87	up	0.00708
AA191708	400	EST	3.87	up	0.01904
N91023	2715	EST	3.87	up	0.00008
N98758	2744	EST	3.87	up	0.0074
L40379	2210	thyroid receptor interacting protein 10 (CDC42-interacting protein)	3.87	up	0.00207
N92775	2722	amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2)	3.86	up	0.00577

Table 6A. (page 21) Up in Melastatics vs Normal Sample Set 2

AA187938	391	EST		3.86	up	0.00512
Z30643	3876	chloride channel Ka		3.86	up	0.00204
C21248	1585	pituitary tumor-transforming 1		3.85	up	0.00456
D68974	1756	KIAA0220 protein		3.85	up	0.0161
HG821-HT821		ribosomal protein S13		3.84	up	0.00003
X80909	3806	nascent-polypeptide-associated complex alpha polypeptide		3.84	up	0.00399
W76097	3596	EST		3.83	up	0.00001
AA291659	702	EST		3.83	up	0.01934
W60763	3605	EST		3.83	up	0.01319
AA026092	54	EST		3.83	up	0.04596
AA411685	890	EST		3.83	up	0.00417
Z41103	3926	trinucleotide repeat containing 15		3.83	up	0.00444
AA455522	1179	EST		3.83	up	0.00017
D21083	1628	minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin)		3.83	up	0.00883
D42085	1658	KIAA0095 gene product		3.83	up	0.00036
HG3039-HT3200		ADP-ribosylation factor 1		3.83	up	0.00077
L33075	2195	IQ motif containing GTPase activating protein 1		3.83	up	0.00015
M77232	2398	ribosomal protein S6		3.82	up	0.00045
R56878	2907	EST		3.81	up	0.02242
AA621277	1520	EST		3.81	up	0.00194
AA437387	1064	EST		3.81	up	0.01478
N49738	2538	EST		3.81	up	0.02479
AA504264	1410	EST		3.81	up	0.00684
U53347	3388	solute carrier family 1 (neutral amino acid transporter), member 5		3.81	up	0.00273
X55954	3733	ribosomal protein L23		3.81	up	0.00025
D54296	1685	KIAA0255 gene product		3.8	up	0.01059
M30496	2324	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thioesterase)		3.8	up	0.00478
U11861	3297	maternal G10 transcript		3.8	up	0.00001
N27186	2469	EST		3.79	up	0.00112
H49637	1940	EST		3.79	up	0.01092
M18000	2283	ribosomal protein S17		3.79	up	0.00004
U09564	3294	SFRS protein kinase 1		3.79	up	0.00765
F08684	1805	EST		3.78	up	0.00277
AA128407	259	EST		3.78	up	0.01081
R28636	2808	UDP-Gal4betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3		3.78	up	0.00765

Table 6A. (page 22) Up in Metastatics vs Normal Sample Set 2

L12350	2160	thrombospondin 2	3.78	up	0.00061
N93105	2727	EST	3.77	up	0.02195
HG3945-HT4215		phospholipid transfer protein	3.77	up	0.03169
AA131894	269	EST	3.76	up	0.00384
T48195	3130	eukaryotic translation initiation factor 3, subunit 3 (gamma, -40KD)	3.75	up	0.00012
N66038	2631	phorbol (similar to apolipoprotein B mRNA editing protein)	3.75	up	0.01041
AA437368	1063	EST	3.75	up	0.01317
M15205	2265	thymidine kinase 1, soluble	3.75	up	0.00159
AA620995	1512	EST	3.74	up	0.03414
M10098	2231	EST	3.73	up	0.01794
AA113303	227	transmembrane 4 superfamily member (tetraspan NET-7)	3.73	up	0.00084
X69908	3783	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 2	3.73	up	0.00685
AA179298	378	stomatin-like protein 2	3.72	up	0.00299
N96739	2433	nucleic acid loop helix 1	3.72	up	0.00015
X55715	3732	ribosomal protein S3	3.72	up	0.00755
AA436027	1050	EST	3.71	up	0.03676
H04799	1841	EST	3.71	up	0.04109
Z40898	3922	EST	3.71	up	0.01168
AA150053	327	fusion, derived from t(12;16) malignant liposarcoma	3.71	up	0.0052
AA025166	50	EST	3.71	up	0.00102
AA490212	1375	H2A histone family, member Y	3.71	up	0.01226
AA307748	730	EST	3.7	up	0.00001
N29888	2482	EST	3.7	up	0.00226
AA034499	78	zinc finger protein 198	3.7	up	0.02143
D14657	1615	KIAA101 gene product	3.7	up	0.04079
L36866	2208	RNA-binding protein (autoantigenic)	3.7	up	0.00093
AA418963	911	EST	3.69	up	0.03956
AA496204	1397	EST	3.69	up	0.01097
AA435526	1037	transferrin receptor (p90, CD71)	3.69	up	0.00139
AA126459	248	DKFZP566B023 protein	3.69	up	0.00352
H78323	2002	transcription factor Dp-1	3.69	up	0.00326
W73189	3586	EphB2	3.69	up	0.02509
AA025356	66	EST	3.68	up	0.01545
C14051	1565	phosphoprotein enriched in astrocytes 15	3.68	up	0.01453

Table 6A. (page 23) Up in Metastatics vs Normal Sample Set 2

R38280	2830	BCS1 (yeast homolog)-like proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2)	3.68	up	0.0009
X66401	3768	CD47 antigen (Rb-related antigen, integrin-associated signal transducer)	3.68	up	0.01385
X69398	3781	EST	3.67	up	0.02332
AA429470	996	ras homolog gene family, member C	3.67	up	0.00782
L25081	2180	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	3.67	up	0.00005
M23613	2301	EST	3.67	up	0.00977
AA326993	738	KIAA0601 protein	3.66	up	0.00146
W39183	3505	EST	3.66	up	0.00018
AA211851	436	matrix Gla protein	3.66	up	0.00789
X53331	3724	GSL-96 protein	3.66	up	0.04038
AA621780	1530	EST	3.65	up	0.01582
AA449122	1119	EST	3.65	up	0.00369
W70336	3576	adaptor-related protein complex 2, beta 1 subunit	3.65	up	0.01716
AA029215	64	polymyrase (RNA II (DNA directed) polypeptide H	3.65	up	0.00037
N27334	2470	minichromosome maintenance deficient (S. cerevisiae) 3	3.65	up	0.03437
U37689	3355	EST	3.65	up	0.00044
D38073	1651	centrosome associated protein	3.64	up	0.01869
R49216	2879	endogenous retroviral protease	3.64	up	0.00004
AA135407	292	EST	3.64	up	0.00008
AA148977	322	high-mobility group (nonhistone chromosomal) protein 1	3.64	up	0.01086
D63874	1714	EST	3.64	up	0.02911
AA454597	1166	replication factor C (activator 1) 4 (37kD)	3.63	up	0.00228
F04320	1786	zinc finger protein 33a (KOX 31)	3.63	up	0.00067
X66688	3777	EST	3.62	up	0.01119
R27432	2807	triosephosphate isomerase 1	3.62	up	0.00319
AA401958	632	EST	3.62	up	0.00014
HG2279-HT2375	913	EST	3.62	up	0.01232
AA416973	2593	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	3.61	up	0.00192
N62675	3058	EST	3.61	up	0.00091
T15477	1225	EST	3.61	up	0.04034
AA460017	1660	chaperonin containing TCP1, subunit 5 (epsilon)	3.61	up	0.00005
D43950	2745	EST	3.61	up	0.00109
N99505			3.6	up	0.00672
				up	0.04499

Table 6A. (page 24) Up in Melastatics vs Normal Sample Set2

AA443271	1073	KIAA0546 protein	3.6	up	0.01228
N89937	2770	LIM domain only 7	3.6	up	0.00375
R71082	2950	programmed cell death 5	3.6	up	0.01338
AA412720	905	EST	3.8	up	0.01396
X17567	3716	small nuclear ribonucleoprotein polypeptides B and B1	3.8	up	0.00586
AA399226	803	light junction protein 3 (zona occludens 3)	3.59	up	0.02002
R55470	2903	EST	3.59	up	0.00515
X79234	3800	ribosomal protein L11	3.59	up	0.00051
D80917	1736	KIAA0670 protein/lacinus	3.58	up	0.00007
W81375	3610	EST	3.58	up	0.00322
U86606	3451	pyridoxal (pyridoxine, vitamin B6) kinase	3.58	up	0.00322
X05610	3682	collagen, type IV, alpha 2	3.58	up	0.01351
AA443941	1085	tumor suppressing subtransferable candidate 1	3.57	up	0.01685
N65935	2574	EST	3.57	up	0.00282
N68395	2634	ribosomal protein L13a	3.57	up	0.00417
R48084	2878	KIAA0770 protein	3.57	up	0.00447
U83246	3442	copine 1	3.57	up	0.01672
AA182001	386	EST	3.56	up	0.00945
N51342	2544	EST	3.56	up	0.00001
W42627	3508	EST	3.56	up	0.00198
X65364	3767	cyclin-dependent kinase 5	3.55	up	0.02824
AA451680	1136	hepatocellular carcinoma associated protein; breast cancer associated gene 1	3.55	up	0.00708
Z38909	3894	EST	3.55	up	0.03195
T48293	3132	EST	3.55	up	0.01355
W37680	3502	EST	3.55	up	0.01036
AA252994	557	apoptosis inhibitor 4 (survivin)	3.55	up	0.00075
AA134052	285	Rab geranylgeranyltransferase, alpha subunit	3.54	up	0.03062
AA504806	1416	EST	3.54	up	0.00221
T12599	3055	ribosomal protein L21	3.54	up	0.01437
L19527	2169	ribosomal protein L27	3.54	up	0.00025
U17760	3314	laminin, beta 3 (nicotin (125kD), kalinin (140kD), BM600 (125kD))	3.54	up	0.01853
AA056391	140	integral membrane protein 2C	3.53	up	0.02983
H55437	1948	kraken-like	3.53	up	0.02344
C14098	1566	EST	3.53	up	0.04401

Table 6A. (page 25) Up in Metastatics vs Normal Sample Set 2

H98924	2072	chromatin assembly factor 1, subunit A (p150)	3.53	up	0.02106
AA094517	202	EST	3.52	up	0.04805
AA237017	521	KIAA1068 protein	3.52	up	0.00876
T58607	3154	EST	3.52	up	0.04102
AA028103	61	EST	3.52	up	0.01142
AA138547	302	EST	3.51	up	0.00308
AA151182	332	EST	3.51	up	0.00043
AA400271	814	EST	3.51	up	0.00742
U93868	3462	polymerase (RNA) III (DNA directed) (32KD)	3.5	up	0.01235
W73914	3592	EST	3.5	up	0.04782
AA482007	1331	EST	3.49	up	0.00167
AA452259	1143	EST	3.49	up	0.00114
HG3549-HT3751		ribosomal protein L10	3.49	up	0
U79286	3433	protein predicted by clone 23627	3.49	up	0.00004
X07820	3692	matrix metalloproteinase 10 (stromelysin 2)	3.49	up	0.00689
H08863	1859	hypothetical protein	3.49	up	0.00205
AA232659	710	EST	3.48	up	0.00037
AA432162	1029	DKFZP586B2022 protein	3.48	up	0.03851
T92935	3254	EST	3.48	up	0.03578
X67247	3771	mitogen-activated protein kinase kinase kinase 3	3.48	up	0.00012
AA426521	967	Spogren's syndrome nuclear autoantigen 1	3.47	up	0.01161
AA489707	1371	EST	3.47	up	0.03433
AA609008	1475	EST	3.46	up	0.02935
L36720	2205	bystin-like	3.46	up	0.00094
D21261	1629	transgelin 2	3.46	up	0.00685
AA446968	1097	EST	3.45	up	0.02232
AA459310	1214	EST	3.45	up	0.00179
N30436	2483	EST	3.45	up	0.02356
AA410862	887	peroxisome proliferative activated receptor, delta	3.45	up	0.04574
F02800	1780	EST	3.45	up	0.03238
U14970	3304	ribosomal protein S5	3.45	up	0.00915
U26726	3335	hydroxysteroid (11-beta) dehydrogenase 2	3.45	up	0.02342
H17476	1889	EST	3.44	up	0.00479
D19737	1623	golgi autoantigen, golgin subfamily a, 3	3.44	up	0.02212
U76366	3423	Treacher Collins-Franceschetti syndrome 1	3.44	up	0.00021

Table 6A. (page 26) Up in Metastatics vs Normal Sample Set 2

L40904	2212	peroxisome proliferative activated receptor, gamma	3.43	up	0.03511
AA427442	971	guanine nucleotide regulatory factor	3.43	up	0.01547
R77631	2966	EST	3.43	up	0.00006
AA398761	799	EST	3.43	up	0.00726
D80662	1733	adaptor-related protein complex 1, gamma 2 subunit	3.43	up	0.01068
M77636	2400	pyruvate-5-carboxylate reductase 1	3.43	up	0.00759
T78922	3221	stem cell growth factor; lymphocyte secreted C-type lectin	3.42	up	0.02419
N51053	2542	eukaryotic translation initiation factor 5	3.42	up	0.01326
AA134158	287	EST	3.42	up	0.0277
AA454710	1168	EST	3.42	up	0.00653
AA446949	1096	EST	3.41	up	0.03411
AA164252	358	VGF nerve growth factor inducible	3.41	up	0.00154
T59161	3158	thymosin, beta 10	3.41	up	0.01885
T35725	3112	EST	3.4	up	0.00149
M60854	2367	ribosomal protein S16	3.4	up	0.00001
AA135871	294	EST	3.39	up	0.01544
AA599244	1448	KIAA0530 protein	3.39	up	0.01246
D25274	1632	EST	3.39	up	0.00238
U33286	3348	chromosome segregation 1 (yeast homolog)-like	3.39	up	0.00939
AA384184	774	DKFZP586B0519 protein	3.38	up	0.01209
H04753	1839	EST	3.38	up	0.02447
AA422049	937	EST	3.38	up	0.00067
AA233886	475	D site of albumin promoter (albumin D-box) binding protein	3.38	up	0.0218
U86409	3449	EST	3.38	up	0.00003
X52851	3722	EST	3.38	up	0.0001
U84720	3445	RAE1 (RNA export 1, S.pombe) homolog	3.37	up	0.03586
M31520	2328	ribosomal protein S24	3.37	up	0.00077
AA456890	1206	EST	3.36	up	0.00303
AA504413	1413	EST	3.35	up	0.00079
AA001409	1	EST	3.35	up	0.04092
AA251909	549	EST	3.35	up	0.03937
AA461473	1242	nebulin	3.35	up	0.03855
J04823	2115	cytochrome c oxidase subunit VIII	3.35	up	0.00075
M26708	2311	prothymosin, alpha (gene sequence 28)	3.35	up	0.00064
AA370163	766	EST	3.34	up	0.00643

Table 6A. (page 27) Up in Metastatics vs Normal Sample Set 2

AA149889	326	neighbor of A-kinase anchoring protein 95	3.34	up	0.02054
U22376	3327	v-myb avian myeloblastosis viral oncogene homolog	3.34	up	0.03416
		stress-associated endoplasmic reticulum protein 1; ribosome associated			
C00021	1551	membrane protein 4	3.33	up	0.00215
AA156450	342	EST	3.33	up	0.00587
AA338729	743	EST	3.33	up	0.00046
D83763	1748	trinucleotide repeat containing 11 (THR-associated protein, 230 kDa subunit)	3.33	up	0.00748
HG4542-HT4947		ribosomal protein L15	3.33	up	0.00023
AA427825	981	EST	3.32	up	0.01615
D43949	1659	KIAA0082 protein	3.32	up	0.0014
D50913	1672	KIAA0123 protein	3.32	up	0.01202
AA476599	1304	G protein-coupled receptor 56	3.31	up	0.00182
H93021	2033	peptidylprolyl isomerase A (cyclophilin A)	3.31	up	0.0183
R53109	2898	dimethylarginine dimethylaminohydrolase 2	3.31	up	0.02389
AA132983	274	DKFZP586G1517 protein	3.31	up	0.01155
H93852	2039	ribosomal protein S5	3.31	up	0.00786
T33508	3105	phosphatidylinositol-4-phosphate 5-kinase, type II, beta	3.31	up	0.00416
M33197	2337	glyoxaldehyde-3-phosphate dehydrogenase	3.31	up	0.00009
H59817	1964	EST	3.3	up	0.04588
D51287	1680	ribosomal protein S12	3.3	up	0.02829
L20941	2174	ferritin, heavy polypeptide 1	3.3	up	0.01172
M91083	2418	chromosome 11 open reading frame 13	3.3	up	0.00163
Z68228	3944	junction plakoglobin	3.3	up	0.0237
R73565	2958	EST	3.29	up	0.03489
Z39200	3899	EST	3.29	up	0.00586
AA084921	182	ribosomal protein S10	3.29	up	0.04872
T59668	3159	lysyl oxidase	3.28	up	0.00588
AA280928	642	EST	3.27	up	0.04625
AA397916	784	EST	3.27	up	0.02895
D20464	1625	brondomain adjacent to zinc finger domain, 2B	3.27	up	0.04897
N73846	2679	EST	3.27	up	0.00012
D80237	1729	actin related protein 2/3 complex, subunit 4 (20 kD)	3.27	up	0.00137
T47032	3123	partner of RAC1 (araplatin 2)	3.27	up	0.00503
AA218663	444	acid-inducible phosphoprotein	3.26	up	0.03537

Table 6A. (page 28) Up in Metastatics vs Normal Sample Set 2

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Table 6A. (page 29) Up in Metastatics vs Normal Sample Set 2

AA504111	1409	EST		3.2	up	0.00544
U90549	3455	high-mobility group (nonhistone chromosomal) protein 17-like 3		3.2	up	0.0401
X13956	3698	EST		3.2	up	0.00321
AA608965	1474	Hermansky-Pudlak syndrome		3.19	up	0.00204
U62392	3402	zinc finger protein 193		3.18	up	0.00269
N59463	2579	PCTAIRE protein kinase 1		3.18	up	0.00649
AA438616	1056	EST		3.18	up	0.04402
U40990	3358	potassium voltage-gated channel, KQT-like subfamily, member 1		3.18	up	0.00983
X56997	3738	ubiquitin A-52 residue ribosomal protein fusion product 1		3.18	up	0.00006
X68391	3780	ribosomal protein L6		3.18	up	0.00003
X78687	3797	sialidase 1 (lysosomal sialidase)		3.18	up	0.031
X95404	3831	cofilin 1 (non-muscle)		3.18	up	0.00104
AA258482	596	zinc finger protein		3.17	up	0.04606
		NADH dehydrogenase (ubiquinone) Fe-S protein 6 (13kD) (NADH-coenzyme Q reductase)				
AA168837	364	plakophilin 3		3.17	up	0.03038
AA479945	1319	KIAA0179 protein		3.17	up	0.01767
AA598506	1430	catenin (cadherin-associated protein), delta 1		3.17	up	0.01694
T26574	3095	KIAA0014 gene product		3.17	up	0.00828
D25216	1631	phosphofructokinase, platelet		3.17	up	0.02125
D25328	1633	ribosomal protein L19		3.17	up	0.04925
X63527	3758	ribosomal protein S25		3.17	up	0.02488
M64716	2382	EST		3.16	up	0.00039
HG1112-HT1112		mucin 3, intestinal		3.15	up	0.04958
HG2147-HT2217		EST		3.15	up	0.0026
D78361	1718	EST		3.14	up	0.00023
Z38729	3891	EST		3.13	up	0.04514
AA192755	401	EST		3.13	up	0.00442
AA194237	408	EST		3.13	up	0.00212
M31520	2328	ribosomal protein S24		3.13	up	0.00014
AA410972	888	EST		3.12	up	0.00023
D52632	1683	ribosomal protein S6		3.12	up	0.00498
HG27324-HT2820		DNA-damage-inducible transcript 3		3.12	up	0.03726
X92518	3822	high-mobility group (nonhistone chromosomal) protein isoform I-C		3.12	up	0.00638
AA402937	843	EST		3.11	up	0.00182
N64616	2610	EST		3.11	up	0.0074

Table 6A, (page 30) Up in Melastatics vs Normal Sample Set 2

H28333	1912	melanoma adhesion molecule	3.11	up	0.00172
M14949	2284	related RAS viral (r-ras) oncogene homolog	3.11	up	0.00013
U43901	3361	laminin receptor 1 (67kD, ribosomal protein SA)	3.11	up	0.03145
HG2815-HT2931		myosin, light polypeptide 6, alkali, smooth muscle and non-muscle	3.11	up	0.00475
X68654	3782	ribosomal protein S26	3.11	up	0.02883
AA402968	844	EST	3.1	up	0.00463
N67205	2624	EST	3.1	up	0.00626
N92915	2723	breifeldin A-inhibited guanine nucleotide-exchange protein 1	3.1	up	0.00807
D14530	1614	ribosomal protein S23	3.1	up	0.00331
M68864	2389	ORF	3.1	up	0.00603
U14973	3307	ribosomal protein S29	3.1	up	0.00028
M36072	2347	ribosomal protein L7a	3.1	up	0.00006
AA448479	1129	EST	3.09	up	0.03495
D59847	1701	EST	3.09	up	0.02206
AA194724	409	endonuclease G	3.09	up	0.04011
AA412403	900	EST	3.09	up	0.00047
U05875	3285	interferon gamma receptor 2 (interferon gamma transducer 1)	3.09	up	0.00549
X80822	3805	ribosomal protein L18a	3.08	up	0.02481
T58153	3153	heat shock 105KD	3.08	up	0.01317
HG4319-HT4589		ribosomal protein L5	3.08	up	0.0017
U67171	3408	selenoprotein W, 1	3.08	up	0.0047
L12711	2161	transketolase (Wernicke-Korsakoff syndrome)	3.08	up	0.03362
N70577	2658	EST	3.07	up	0.01975
Z39930	3911	EST	3.07	up	0.00002
AA158795	352	EST	3.07	up	0.00057
W37937		EST	3.07	up	0.00776
D79205	1721	ribosomal protein L39	3.07	up	0.00021
AA448475	1128	EST	3.06	up	0.00291
N24889	2460	EST	3.06	up	0.00353
Z38150	3880	EST	3.06	up	0.00049
AA172076	369	EST	3.06	up	0.00326
N90238	2711	EST	3.06	up	0.00354
		fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group included)			
U27328	3337	EST	3.05	up	0.03224
AA421638	935	EST	3.05	up	0.00487

Table 6A. (page 31) Up in Metastatics vs Normal Sample Set2

AA007188	15	EST		3.05	up	0.01964
H24077	1900	EST		3.05	up	0.0324
U36341	3350		solute carrier family 6 (neurotransmitter transporter, creatine), member 8	3.05	up	0.02622
U02483	3278		non-Pou domain-containing octamer (ATGCAAAAT) binding protein	3.04	up	0.0019
N38432	2506		erythrocyte membrane protein band 4.1-like 2	3.03	up	0.03086
AA438473	1052	EST		3.03	up	0.00133
AA598712	1436	EST		3.03	up	0.03656
AA447118	1099	EST		3.03	up	0.01702
H52673	1943		BCL2-antagonist/killer 1	3.03	up	0.0393
AA491223	1389	EST		3.03	up	0.00557
T47989	3127		ceroid-lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeier-Vogt disease)	3.03	up	0.03452
X03453	3674	EST		3.03	up	0.0025
J03459	2093		leukotriene A4 hydrolase	3.03	up	0.04041
M86667	2410		nucleosome assembly protein 1-like 1	3.03	up	0.04853
X80198	3804		steroidogenic acute regulatory protein related	3.03	up	0.00044
W44733	3516	EST		3.02	up	0.00097
X63629	3759		cadherin 3, P-cadherin (placental)	3.02	up	0.01654
AA427946	983		dynamin, axonemal, light polypeptide 4	3.01	up	0.00001
R45608	2885	EST		3.01	up	0.04766
W49661	3536		FK506-binding protein 9 (63 kD)	3.01	up	0.02259
R08986	2775		peptidylprolyl isomerase B (cyclophilin B)	3.01	up	0.04418
			protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting			
			protein (liprin), alpha 3			
W72861	3583			3.01	up	0.00055
AA278838	620	EST		3	up	0.02832
U03891	3282		phorbolin (similar to apolipoprotein B mRNA editing protein)	3	up	0.00065

Table 6B. (page 1) Down in Metastatics vs Normal Sample Set 2

Fragment Name	SEQ ID :	Known Gene Name	Fold Change	Direction	P value
N54417	2566	fibrinogen, A alpha polypeptide	99.28	down	0.00001
N53031	2555	UDP glycosyltransferase 2 family, polypeptide B4	97.58	down	0.00022
M15656	2268	aldolase B, fructose-bisphosphate	96.66	down	0
T73442	3212	EST	94.41	down	0
T59148	3157	carbamoyl-phosphate synthetase 1, mitochondrial	88.89	down	0
R49459	2881	transferrin receptor 2	85.61	down	0.00048
X55283	3731	asialoglycoprotein receptor 2	84.99	down	0.00084
		cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase),			
L18883	2166	polypeptide 9	84.71	down	0.00327
T48039	3128	protein C (inactivator of coagulation factors Va and VIIIa)	84.39	down	0.00112
T71373	3202	EST	83.08	down	0.00069
H58692	1960	formyltetrahydrofolate dehydrogenase	81.41	down	0
T48901	3122	EST	77.28	down	0.0006
M81349	2404	serum amyloid A4, constitutive	76.15	down	0.00015
R43174	2847	paraoxonase 1	74.04	down	0.00038
X65727	3765	glutathione S-transferase A2, glutathione S-transferase A3	73.64	down	0
M16594	2272	glutathione S-transferase A2	73.21	down	0
		cytochrome P450, subfamily IIA (phenobarbital-inducible),			
U22029	3326	polypeptide 7	71.98	down	0
AA256367	579	paraoxonase 3	70.33	down	0.00192
		cytochrome P450, subfamily IIA (phenobarbital-inducible),			
K03192	2127	polypeptide 6	69.92	down	0
AA035245	79	aldehyde oxidase 1	69.82	down	0.00117
N80129	2702	metallothionein 1L	66.48	down	0.00415
		cytochrome P450, subfamily IIIB (sterol 12-alpha-hydroxylase),			
R97419	3003	polypeptide 1	65.07	down	0.0039
T83356	3231	apolipoprotein H (beta-2-glycoprotein I)	64.34	down	0.00802
		fatty-acid-Coenzyme A ligase, long-chain 1, fatty-acid-Coenzyme A			
AA348922	758	ligase, long-chain 2	64.27	down	0.00002
T83397	3232	phytanoyl-CoA hydroxylase (Refsum disease)	63.6	down	0
R16098	2792	EST	63.41	down	0.00038

Table 6B. (page 2) Down in Metastatics vs Normal Sample Set 2

R89811	2979	HGF activator	62.51 down	0.00148
H57166	1955	EST	60.76 down	0.00007
N33009	2491	apolipoprotein E	60.54 down	0.0093
N54053	2560	secreted phosphoprotein 2, 24kD	60.39 down	0.00087
T68878	3190	carboxylesterase 1 (monocytic/macrophage serine esterase 1)	60.35 down	0.00409
R08564	2779	plasminogen-like	60.18 down	0.00091
F10182	1812	hepsin (transmembrane protease, serine 1)	58.92 down	0.00837
L25880	2184	epoxide hydrolase 1, microsomal (xenobiotic)	58.7 down	0.00013
W88946	3636	putative glycine-N-acyltransferase	58.26 down	0
N54429	2567	EST	57.81 down	0.00724
M29873	2318	cytochrome P450, subfamily 11B (phenobarbital-inducible)	56.71 down	0.0054
AA476324	1281	EST	55.22 down	0.00132
R12472	2788	EST	55.18 down	0.00011
AA453988	1160	methionine adenosyltransferase 1, alpha	54.29 down	0.00381
T56264	3148	apolipoprotein C-II	53.04 down	0.00938
W92148	3647	kininogen	51.09 down	0.00376
R071023	2751	glucokinase (hexokinase 4) regulatory protein	50.71 down	0.00321
H80901	2005	ficollin (collagen/fibrinogen domain-containing) 3 (Hakata antigen)	50.61 down	0.00262
D31628	1646	4-hydroxyphenylpyruvate dioxygenase	50.48 down	0.00002
AA401562	830	EST	50.45 down	0.00301
K03192	2127	cytochrome P450, subfamily 11A (phenobarbital-inducible),	50.16 down	0
T67931	3183	polypeptide 6	49.55 down	0
M16974	2277	fibrinogen, B beta polypeptide	49.47 down	0.00046
		complement component 8, alpha polypeptide		
		alcohol dehydrogenase 1 (class I), alpha polypeptide, alcohol		
		dehydrogenase 2 (class I), beta polypeptide, alcohol dehydrogenase		
M12963	2248	3 (class I), gamma polypeptide	48.95 down	0.00104
T73433	3211	angiotensinogen	48.3 down	0.00049
AA009719	20	peroxisomal membrane protein 2 (22kD)	47.12 down	0.00008
H94666	2045	alpha-1-B glycoprotein	47.03 down	0.01156
T98676	3268	EST	46.94 down	0.0001
T40936	3117	EST	46.92 down	0.00056
R98073	3008	EST	46.87 down	0

Table 6B. (page 3) Down in Metastatics vs Normal Sample Set 2

A4456311	1190	EST			
H91325	2029	aldolase B, fructose-bisphosphate		46.81 down	0.001
H74317	1997	apolipoprotein A-II		45.85 down	0.00505
		vitronectin (serum spreading factor, somatomedin B, complement S-		45.09 down	0.01982
		protein)			
T61373	3162	inter-alpha (globulin) inhibitor, H1 polypeptide		44.9 down	0.03172
X16260	3707	activating transcription factor 5		44.65 down	0.00933
AA421049	927	coagulation factor II (thrombin)		44.41 down	0.00179
M17262	2278	cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase),		44.3 down	0.00345
		polypeptide 18, cytochrome P450, subfamily IIC (mephenytoin 4-			
		hydroxylase), polypeptide 8		44.17 down	0.0003
HG1827-HT1856	915	fatty-acid-Coenzyme A ligase, very long-chain 1		44 down	0
AA417046	1033	EST		43.74 down	0.00005
AA433946	3200	fibrinogen, B beta polypeptide		43.61 down	0.00743
T71012	2155	complement component 4-binding protein, beta		43.33 down	0
L11244	39	EST		42.87 down	0.00002
AA018867	3084	kininogen		42.85 down	0.00641
T23882	2130	antithrombin III		42.41 down	0.00012
N68596	2635	betaine-homocysteine methyltransferase		40.99 down	0
H94475	2043	alpha-2-plasmin inhibitor		40.92 down	0.00271
AA085987	183	UDP glycosyltransferase 1		40.87 down	0.00004
M75106	2396	carboxypeptidase B2 (plasma)		40.63 down	0
HG2841-HT2988		albumin		40.5 down	0.001
M58600	2362	heparin cofactor II		39.79 down	0.00034
R37128	2826	complement component 4A		39.51 down	0.00364
R93776	2992	EST		39.32 down	0.00176
		cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase),			
		polypeptide 9		38.82 down	0.00023
M61855	2371	cytochrome P450, subfamily IIA (phenobarbital-inducible),			
X13930	3697	polypeptide 6		38.52 down	0
T95813	3261	KIAA1051 protein		38.38 down	0.00008
X68679	3776	complement factor H related 3, complement factor H-related 4		38.22 down	0.00036
W20094	3476	DKFZP586A0522 protein		38.09 down	0.00188

Table 6B. (page 4) Down in Metastatics vs Normal Sample Set 2

AA479148	1311	EST		38.05 down	0
AA235310	496	EST		37.86 down	0.00091
T68711	3187	EST		37.65 down	0.00036
R40395	2840	lecithin-cholesterol acyltransferase		37.33 down	0.00032
W28944	3493	EST		37.07 down	0.00205
U6929	3379	betaine-homocysteine methyltransferase		36.91 down	0
L04751	2138	cytochrome P450, subfamily IVA, polypeptide 11		36.79 down	0.00004
N76012	2693	EST		36.71 down	0.00598
T69284	3195	mammose-binding lectin (protein C) 2, soluble (opsonic defect)		36.53 down	0
R49602	2884	EST		36.5 down	0.00001
X07618	3688	cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolising), polypeptide 7a (pseudogene)		35.79 down	0.00065
N2938	2452	serum amyloid A4, constitutive		35.39 down	0.00128
AA621131	1513	EST		35.37 down	0
D12620	1601	cytochrome P450, subfamily IVF, polypeptide 2, cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase)		35.09 down	0.00015
N70358	2656	growth hormone receptor		34.35 down	0
N70966	2662	solute carrier family 10 (sodium/bile acid cotransporter family), member 1		34.06 down	0.0006
T68855	3188	EST		34.04 down	0
T69029	3193	haptoglobin		33.18 down	0.02825
M33317	2338	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7		32.63 down	0
T48075	3129	hemoglobin, alpha 1		32.56 down	0.00172
M12272	2243	alcohol dehydrogenase 1 (class I), alpha polypeptide, alcohol dehydrogenase 2 (class I), beta polypeptide, alcohol dehydrogenase 3 (class I), gamma polypeptide		32.42 down	0.0034
AA620566	1505	EST		32.4 down	0.00353
T74542	3214	UDP glycosyltransferase 2 family, polypeptide B10		32.36 down	0.00004
T56281	3150	RNA helicase-related protein		32.34 down	0.00002
W73601	3589	EST		32.25 down	0
M11567	2239	angiogenin, ribonuclease, RNase A family, 5		32.25 down	0.0001

Table 6B. (page 5) Down in Metastatics vs Normal Sample Set 2

W66600	3625	EST	32.14 down	0
AA039335	89	coagulation factor XII (Hageman factor)	32 down	0.0029
T67705	3182	asialoglycoprotein receptor 2	31.6 down	0.00705
H89980	2026	protein phosphatase 1, regulatory (inhibitor) subunit 5	31.13 down	0.00006
H20543	1897	DKFZP586B1621 protein	31.03 down	0.00074
H57060	1954	EST	31.08 down	0.01687
H67564	3568	nuclear receptor subfamily 0, group B, member 2	30.34 down	0
N74422	2685	EST	30.32 down	0
X07173	3687	inter-alpha (globulin) inhibitor, H2 polypeptide	30.3 down	0.00016
T47778	3126	fibrinogen, A alpha polypeptide	30 down	0.01401
X90579	3816	EST	29.82 down	0.00273
T98636	3270	complement component 3	29.6 down	0.00051
Z20777	3863	EST	29.59 down	0.00044
U58814	3392	deoxyribonuclease I-like 3	29.43 down	0.00003
M19828	2267	apolipoprotein B (including Ag(x) antigen)	29.37 down	0.00137
R77628	2965	insulin induced gene 1	29.23 down	0.00122
AA452158	1141	ras homolog gene family, member B	28.96 down	0.00064
K02402	2125	coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B)	28.81 down	0.00001
T57140	3151	paraoxonase 3	28.8 down	0
T68873	3189	metallothionein 1L	28.72 down	0.02953
H65569	2051	DKFZP586A0522 protein	28.48 down	0.00139
T56279	3149	H factor (complement)-like 3	28.39 down	0.00016
N60066	2612	EST	28.35 down	0.00055
X07732	3690	hepsin (transmembrane protease, serine 1)	28.21 down	0
AA253216	561	EST	28.18 down	0.00141
W79046	3599	peroxisomal D3,D2-enoyl-CoA isomerase	27.9 down	0.00023
U51010	3380	nicotinamide N-methyltransferase	27.79 down	0.00366
H08102	1858	breast cell glutaminase	27.77 down	0.00032
U70732	3414	glutamic-pyruvate transaminase (alanine aminotransferase)	27.63 down	0
HG2730-HT2828		fibrinogen, A alpha polypeptide	27.34 down	0.001
D90282	1769	carbamoyl-phosphate synthetase 1, mitochondrial	27.29 down	0.00002
X53595	3726	apolipoprotein H (beta-2-glycoprotein I)	27.28 down	0.0006

Table 6B. (page 6) Down in Metastatics vs Normal Sample Set 2

AA599837	1458	insulin-like growth factor-binding protein 4	26.92 down	0.00094
Z2878	2183	epoxide hydrolase 1, microsomal (xenobiotic)	26.84 down	0
L230425	3875	nuclear receptor subfamily 1, group 1, member 3	26.64 down	0
X16260	3707	inter-alpha (globulin) inhibitor, H1 polypeptide	26.39 down	0.0004
R92475	2986	flavin containing monooxygenase 3	26.13 down	0
T61649	3164	superoxide dismutase 2, mitochondrial	26.09 down	0.00734
N63845	2604	phytanoyl-CoA hydroxylase (Refsum disease)	25.92 down	0.00084
X03168	3671	vitronectin (serum spreading factor, somatomedin B, complement S-protein)	25.88 down	0.00911
H81070	2006	RNA helicase-related protein	25.74 down	0.00126
T61801	3166	hemopexin	25.7 down	0.01362
L47726	2219	phenylalanine hydroxylase	25.63 down	0.00019
N59550	2587	EST	25.56 down	0.00024
X56411	3734	alcohol dehydrogenase 4 (class II), pi polypeptide	25.14 down	0.00144
HG2730-HT2827		fibrinogen, A alpha polypeptide	25.1 down	0
AA448300	1116	FXD domain-containing ion transport regulator 1 (phospholemman)	24.97 down	0.00001
N39201	2509	protease inhibitor 4 (kallistatin)	24.91 down	0.00253
M34276	2341	plasminogen	24.73 down	0.00031
Z28339	3872	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)	24.66 down	0
W72044	3577	insulin induced gene 1	24.58 down	0.00001
AA232114	463	epoxide hydrolase 2, cytoplasmic	24.34 down	0.00007
U06541	3286	UDP glycosyltransferase 2 family, polypeptide B15	24.32 down	0.00001
H83381	2036	EST	24.23 down	0
		aldo-keto reductase family 1, member C4 (chlorocone reductase, 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	24.11 down	0
S68287	3024	EST	23.96 down	0.00018
F04611	1792	asialoglycoprotein receptor 1	23.96 down	0
M10058	2230	arylamide deacetylase (esterase)	23.83 down	0
L32179	2193	translational inhibitor protein p14.5	23.6 down	0.00036
AA598419	1427	EST	23.48 down	0.00465
F02028	1774	EST		

Table 6B. (page 7) Down in Metastatics vs Normal Sample Set 2

N89302	2707	HLA-B associated transcript-3	23.44 down	0.00192
AA279676	630	deoxyribonuclease I-like 3	23.35 down	0.00001
		aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)		
U05861	3284	dehydrogenase)	23.22 down	0.00002
H09353	1866	EST	23.06 down	0.00094
M93405	2423	methylmalonate-semialdehyde dehydrogenase	23.06 down	0
S48983	3017	serum amyloid A4, constitutive	23.04 down	0.00022
AA443936	1084	EST	22.96 down	0.00627
N74025	2884	deiodinase, iodothyronine, type I	22.79 down	0
M15517	2267	EST	22.76 down	0.03365
M16973	2276	complement component 8, beta polypeptide	22.75 down	0.00001
X86401	3812	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	22.7 down	0
D16626	1622	histidine ammonia-lyase	22.66 down	0
J02843	2088	cytochrome P450, subfamily IIE (ethanol-inducible)	22.58 down	0.00935
U22961	3329	albumin	22.22 down	0.01531
AA486511	1349	paraoxonase 3	22.21 down	0.00113
L48516	2220	complement component 4-binding protein, alpha	22.21 down	0.00004
M62486	2374	complement component 4-binding protein, alpha cytochrome P450, subfamily IIA (nifedipine oxidase), polypeptide 3	22.08 down	0.00272
D00003	1586	solite carrier family 2 (facilitated glucose transporter), member 2	22.05 down	0.00059
J03810	2099	alpha-2-macroglobulin	21.99 down	0.00004
AA219304	447	homogentisate 1,2-dioxygenase (homogentisate oxidase)	21.97 down	0.00011
R08615	2780	DKFZP586A0522 protein	21.85 down	0.00026
AA147646	317	EST	21.82 down	0
AA292158	706	low density lipoprotein receptor (familial hypercholesterolemia)	21.79 down	0.00031
D11835	1598	EST	21.76 down	0.00307
T87174	3239	alpha-2-HS-glycoprotein	21.71 down	0.00681
M16961	2274	dihydropyrimidinase	21.45 down	0.01175
D78011	1717	EST	21.37 down	0.00003
R98624	3012	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	21.32 down	0
R65593	2934	complement component 9	21.27 down	0.00007
K02766	2126		21.24 down	0

Table 6B. (page 8) Down in Metastatics vs Normal Sample Set 2

AA171694	366	ceruloplasmin (ferroxidase)	21.23 down	0.00179
T58775	3156	small inducible cytokine subfamily A (Cys-Cys), member 16	21.18 down	0.00006
N71542	2664	kidney- and liver-specific gene	21.05 down	0
AA343142	751	EST	20.87 down	0.00003
X12662	3694	arginase, liver	20.59 down	0
R64131	2929	EST	20.58 down	0.01028
M68516	2367	protein C inhibitor (plasminogen activator inhibitor III)	20.54 down	0
L07765	2147	carboxylesterase 1 (monocyte/macrophage serine esterase 1)	20.53 down	0.00025
D10040	1593	fatty acid-Coenzyme A ligase, long-chain 2	20.51 down	0
D13243	1602	pyruvate kinase, liver and RBC	20.22 down	0
X01038	3666	apolipoprotein A-I-apolipoprotein C-III	19.97 down	0.0275
T78889	3220	fibronectin 1	19.87 down	0.00912
S95936	3040	transferrin	19.76 down	0.02009
R59722	2915	EST	19.74 down	0.00016
U08198	3291	complement component 8, gamma polypeptide	19.71 down	0
AA148480	318	flavin containing monooxygenase 5	19.64 down	0
M83772	2408	flavin containing monooxygenase 3	19.54 down	0
X03350	3673	alcohol dehydrogenase 2 (class I), beta polypeptide	19.32 down	0.00001
W86375	3623	EST	19.29 down	0.0061
M76665	2397	hydroxysteroid (11-beta) dehydrogenase 1	19.22 down	0.00004
J02943	2090	corticosteroid binding globulin	18.98 down	0.00087
T61389	3163	haptoglobin	18.95 down	0.04873
J04093	2106	UDP glycosyltransferase 1	18.92 down	0
Y09616	3854	carboxylesterase 2 (intestinal, liver)	18.78 down	0.00026
Z40715	3920	delta-6 fatty acid desaturase	18.68 down	0.0007
M13149	2250	histidine-rich glycoprotein	18.65 down	0.02974
U32576	3346	apolipoprotein C-IV	18.59 down	0.00005
X00129	3664	retinol-binding protein 4, interstitial	18.57 down	0.02378
N69136	2644	EST	18.53 down	0.00366
Z49269	3942	small inducible cytokine subfamily A (Cys-Cys), member 14	18.46 down	0.00001
M29874	2319	cytochrome P450, subfamily IIB (phenobarbital-inducible)	18.44 down	0.00081
M11437	2238	kininogen	18.38 down	0.00006
Y00317	3842	UDP glycosyltransferase 2 family, polypeptide B4	18.34 down	0.00001

Table 6B. (page 9) Down in Metastatics vs Normal Sample Set 2

L09229	2150	fatty-acid-Coenzyme A ligase, long-chain 1, fatty-acid-Coenzyme A ligase, long-chain 2	18.34 down	0.00016
U37055	3352	macrophage stimulating 1 (hepatocyte growth factor-like) macrophage stimulating, pseudogene 9	18.28 down	0
S68805	3025	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	18.19 down	0.00083
D49742	1668	hyaluronan-binding protein 2	18.13 down	0.00012
N49090	2532	EST	18 down	0.00501
M20867	2291	glutamate dehydrogenase 1	17.73 down	0.00002
A4435985	1049	EST	17.7 down	0
X95384	3830	translational inhibitor protein p14.5	17.69 down	0.00048
T51617	3137	solute carrier family 22 (extraneuronal monoamine transporter), member 3	17.67 down	0.00018
D59714	1700	mitogen inducible 2	17.62 down	0.00014
M11025	2235	asialoglycoprotein receptor 2	17.56 down	0.00003
M86873	2413	plasminogen, plasminogen-like	17.54 down	0
A4292328	707	activating transcription factor 5	17.51 down	0.00689
HG1148-HT1148		EST	17.51 down	0.00024
D62518	1708	EST	17.49 down	0.00017
A4424798	947	EST	17.45 down	0.00352
L32140	2192	afamin	17.31 down	0.00003
R02365	2754	glucose-6-phosphatase, catalytic (glycogen storage disease type I, von Gierke disease)	17.17 down	0.00124
N54950	2572	ketohexokinase (fructokinase)	17.17 down	0.00078
M10612	2232	apolipoprotein C-II	17.13 down	0.00746
H30270	1915	EST	17.09 down	0.00001
N73543	2674	EST	17 down	0.00003
M20786	2290	alpha-2-plasmin inhibitor	16.95 down	0.00709
U20530	3321	secreted phosphoprotein 2, 24kD	16.93 down	0
Z39833	3910	GTP-binding protein	16.89 down	0.00034
AA377087	771	EST	16.89 down	0.00002
H47836	1936	carboxypeptidase B2 (plasma)	16.74 down	0.00002
D00097	1588	amyloid P component, serum	16.72 down	0.00098
AA236401	510	EST	16.71 down	0.00088

Table 6B. (page 10) Down in Metastatics vs Normal Sample Set 2

T52813	3141	putative lymphocyte G0/G1 switch gene	16.71 down	0.03887
W92713	3651	EST	16.55 down	0.00097
H83109	2012	EST	16.55 down	0.00001
T63490	3170	EST	16.54 down	0
AA122345	238	glutamate dehydrogenase 1	16.53 down	0.00004
M11321	2237	group-specific component (vitamin D binding protein)	16.52 down	0.01416
K02215	2124	angiotensinogen	16.51 down	0.00006
AA449267	1120	EST	16.44 down	0.00926
N68974	2639	EST	16.44 down	0.00087
R43799	2850	EST	16.35 down	0.00208
N51773	2548	EST	16.32 down	0.0007
L11005	2154	aldehyde oxidase 1	16.3 down	0.00065
N71935	2666	multiple PDZ domain protein	16.28 down	0
M26393	2309	acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain	16.27 down	0.00007
J05037	2116	serine dehydratase	16.24 down	0.00015
M11437	2238	kininogen	16.19 down	0.02277
T73739	3213	alanine-glyoxylate aminotransferase (oxalosis I; hyperoxaluria I;	16.18 down	0.00277
AA404252	848	glycolicaciduria; serine-pyruvate aminotransferase)	16.15 down	0.00001
M58569	2361	lectin, mannose-binding, 1	16.15 down	0.00174
J05428	2120	UDP glycosyltransferase 2 family, polypeptide B7	16.14 down	0.00563
AA194997	412	EST	16.12 down	0.00103
X14690	3700	pre-alpha (globulin) inhibitor, H3 polypeptide	16.07 down	0.00438
H77597	2000	metallothionein 1H	16.03 down	0.00675
U08006	3289	complement component 8, alpha polypeptide	16 down	0.00111
AA458946	1209	EST	15.88 down	0.00004
M13699	2253	ceruloplasmin (ferroxidase)	15.85 down	0.00012
M21642	2294	antithrombin III	15.82 down	0.01027
W28824	3492	EST	15.8 down	0.00006
H60595	1966	progesterone binding protein	15.8 down	0.01078
R06746	2770	EST	15.77 down	0.00009
AA236455	512	EST	15.71 down	0.00286
AA253369	563	EST	15.59 down	0.00091

Table 6B. (page 11) Down in Metastatics vs Normal Sample Set 2

AA479885	1318	KIAA0843 protein	15.57 down	0.00024
AA455988	1184	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase)	15.54 down	0.00001
AA381125	772	EST	15.48 down	0
AA455403	1177	EST	15.46 down	0.01547
U29953	3341	pigment epithelium-derived factor	15.33 down	0.00212
AA456289	1189	EST	15.31 down	0.00004
H93246	2035	EST	15.3 down	0.00233
AA015768	34	EST	15.3 down	0.00008
AA195656	418	KIAA0977 protein	15.29 down	0.00817
M21642	2294	antithrombin III	15.23 down	0.02088
X56692	3736	C-reactive protein, pentraxin-related	15.15 down	0.01884
AA196287	420	EST	15.07 down	0.00001
T48278	3131	EST	15.04 down	0.04751
N66857	2619	EST	15.03 down	0.00005
AA156565	344	4-nitrophenylphosphatase domain and non-neuronal SNAP25-like 1	15.01 down	0.01387
N58326	2578	EST	14.97 down	0.00647
W98431	3624	protein C inhibitor (plasminogen activator inhibitor III)	14.94 down	0.00152
W79422	3601	fumarylacetoacetate	14.94 down	0.00059
H58673	1959	EST	14.85 down	0.00005
Y12711	3858	progesterone binding protein	14.83 down	0.00285
N31741	2488	serine hydroxymethyltransferase 1 (soluble)	14.76 down	0.00001
N57464	2575	CCAAAT/enhancer binding protein (C/EBP), delta	14.69 down	0.00018
X64877	3763	H factor (complement)-like 3	14.6 down	0
U24266	3330	aldehyde dehydrogenase 4 (glutamate gamma-semialdehyde dehydrogenase; pyroline-5-carboxylate dehydrogenase)	14.54 down	0
N91892	2719	alpha2,3-sialyltransferase	14.52 down	0.00024
AA402224	836	growth arrest and DNA-damage-inducible, gamma	14.41 down	0.00012
AA179004	377	EST	14.34 down	0.00008
AA034030	75	methylmalonyl Coenzyme A mutase	14.32 down	0.00004
M17262	2278	coagulation factor II (thrombin)	14.24 down	0.00028
U48707	3370	protein phosphatase 1, regulatory (inhibitor) subunit 1A	14.22 down	0

Table 6B. (page 12) Down in Metastatics vs Normal Sample Set 2

L35546	2203	glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD)	14.18 down	0.00018
T74608	3215	hydroxyacid oxidase (glycolate oxidase) 1	14.03 down	0
U95090	3463	nephrosis 1, congenital, Finnish type (nephri)	14.01 down	0.00018
AA092716	198	HLA-B associated transcript-3	13.97 down	0.00009
D20350	1624	EST	13.97 down	0.00057
Z49878	3943	guanidinacetate N-methyltransferase	13.96 down	0.00021
HG1428-HT1428		hemoglobin, beta	13.89 down	0.01109
X53414	3725	alanine-glyoxylate aminotransferase (oxalosis I; hyperoxaluria I; glycolicaciduria; serine-pyruvate aminotransferase)	13.87 down	0.00003
M57731	2359	GRO2 oncogene	13.87 down	0.0123
Z48475	3940	glucokinase (hexokinase 4) regulatory protein	13.84 down	0
W86075	3621	EST	13.83 down	0.00057
N57934	2576	formiminotransferase cyclodeaminase	13.81 down	0.00171
AF000573	1543	homogenisate 1,2-dioxygenase (homogenisate oxidase)	13.76 down	0.00002
R36989	2825	hypothetical protein, estradiol-induced	13.7 down	0.00056
N78850	2698	macrophage stimulating 1 (hepatocyte growth factor-like); macrophage stimulating, pseudogene 9	13.69 down	0.00421
X63359	3756	UDP glycosyltransferase 2 family, polypeptide B10	13.66 down	0.00051
N80129	2702	metallothionein 1L	13.6 down	0.00196
T61256	3161	ketohexokinase (fructokinase)	13.59 down	0.00425
X07618	3688	cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolising), polypeptide 7a (pseudogene)	13.58 down	0
HG2383-HT4824		cystathionine-beta-synthase	13.57 down	0.00035
X52520	3720	tyrosine aminotransferase	13.51 down	0.00002
X98337	3837	complement factor H related 3, complement factor H-related 4	13.5 down	0.00001
T17411	3077	transferrin (prealbumin, amyloidosis type I)	13.49 down	0.00203
D12820	1601	cytochrome P450, subfamily IVF, polypeptide 2, cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase)	13.45 down	0
N75870	2692	dual specificity phosphatase 1	13.41 down	0.00251
U01120	3273	glucose-6-phosphatase, catalytic (glycogen storage disease type I, von Gierke disease)	13.41 down	0.00147

Table 6B. (page 13) Down in Metastatics vs Normal Sample Set 2

T58756	3155	EST		13.39 down	0.00013
AA470153	1275	solute carrier family 21 (organic anion transporter), member 9		13.26 down	0.00315
T40995	3118	alcohol dehydrogenase 3 (class I), gamma polypeptide		13.25 down	0.01531
R92768	2988	EST		13.2 down	0.00001
AA148923	321	decidual protein induced by progesterone inter-alpha (globulin) inhibitor H4 (plasma kallikrein-sensitive glycoprotein)		13.2 down	0.00257
D38535	1654	solute carrier family 10 (sodium/bile acid cotransporter family), member 1		13.2 down	0.01165
L21893	2176	EST		13.18 down	0.00155
AA259064	602	EST		13.15 down	0.00001
N73561	2675	EST		12.96 down	0.00011
X59766	3746	alpha-2-glycoprotein 1, zinc		12.96 down	0.00043
AA233152	467	EST		12.95 down	0
X72177	3787	complement component 6		12.94 down	0.00011
Z40902	3923	SEC14 (S. cerevisiae)-like 2		12.87 down	0.00001
X95190	3829	acyl-Coenzyme A oxidase 2, branched chain		12.81 down	0
R52822	2895	EST		12.79 down	0.00001
W95041	3659	EST		12.77 down	0.00001
X13334	3896	CD14 antigen		12.77 down	0.00887
D14012	1612	HGF activator		12.75 down	0.0035
L12760	2162	phosphoenolpyruvate carboxykinase 1 (soluble)		12.75 down	0.00035
R08850	2781	EST		12.55 down	0.00009
AA608546	1463	EST		12.52 down	0.00003
AA398280	792	EST		12.43 down	0.00134
J03910	2101	EST		12.42 down	0.01167
AA599814	1456	EST		12.37 down	0.00002
W07532	3631	putative glycine-N-acyltransferase		12.34 down	0.00014
M14338	2260	protein S (alpha)		12.33 down	0
X64877	3763	I factor (complement)-like 3		12.33 down	0
R80048	2971	EST		12.28 down	0.00128
R05726	2769	protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin		12.26 down	0.03905
AA405832	866	EST		12.24 down	0.00441
M29194	2315	lipase, hepatic		12.18 down	0.00012

Table 6B. (page 14) Down in Metastatics vs Normal Sample Set 2

W58756	3551	EST		12.17 down	0.00087
T24106	3088	EST		12.13 down	0.01687
AA402656	841	EST		12.05 down	0.00001
L11244	2155	complement component 4-binding protein, beta		12.03 down	0.0001
M65134	2385	complement component 5		12.01 down	0.00012
HG3543-HT3739		insulin-like growth factor 2 (somatomedin A)		11.97 down	0.00221
L34081	2199	bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choyltransferase)		11.96 down	0.00008
U77594	3427	retinoic acid receptor responder (lazarotene induced) 2		11.95 down	0.00527
AA400258	812	EST		11.89 down	0.00478
AA402799	842	EST		11.81 down	0.00031
M94065	2424	dihydroxotrate dehydrogenase		11.78 down	0.00034
U76376	3424	harakiri, BCL2-interacting protein (contains only BH3 domain)		11.77 down	0.00002
AA090257	190	superoxide dismutase 2, mitochondrial		11.72 down	0.02072
AA021623	43	insulin induced gene 1		11.71 down	0.00094
W70115	3573	histidine ammonia-lyase		11.65 down	0.0003
M69177	2391	monamine oxidase B		11.64 down	0.00001
X14813	3702	acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)		11.61 down	0.0002
AA461444	1239	EST		11.56 down	0.00167
R73816	2960	EST		11.53 down	0.00259
U31449	3344	transmembrane 4 superfamily member 4		11.53 down	0.00187
H55759	1949	EST		11.52 down	0.00034
U27460	3338	UDP-glucose pyrophosphorylase 2		11.46 down	0.00088
H29568	1914	EST		11.45 down	0.00058
AA194833	411	claudin 1		11.45 down	0.00034
AA176233	376	EST		11.44 down	0.01856
M74587	2393	insulin-like growth factor binding protein 1		11.42 down	0.00274
AA436560	1055	claudin 1		11.41 down	0.00756
Z69923	3945	HGF activator		11.37 down	0.00053
U58814	3392	deoxyribonuclease I-like 3		11.36 down	0.00001
AA236455	512	EST		11.35 down	0.02859

Table 6B. (page 15) Down in Metastatics vs Normal Sample Set 2

U13061	3301	sulfotransferase family 2A, dehydroepiandrosterone (DHEA) - preferring, member 1	11.32 down	0.00048
D49357	1665	methionine adenosyltransferase I, alpha	11.28 down	0.00031
X04085	3675	catalase	11.27 down	0.0002
M31994	2332	aldehyde dehydrogenase 1, soluble	11.24 down	0.01192
R10287	2784	EST	11.2 down	0.0003
Z31357	3877	cysteine dioxygenase, type I	11.2 down	0.0001
T86482	3237	transferrin	11.15 down	0.00006
D00408	1589	cytochrome P450, subfamily IIIA (naphthepine oxidase), polypeptide 3, cytochrome P450, subfamily IIIA (naphthepine oxidase), polypeptide 5, cytochrome P450, subfamily IIIA, polypeptide 7	11.1 down	0
A4074885	161	macrophage receptor with collagenous structure	11.05 down	0.00786
H70554	1989	protease inhibitor 4 (kallistatin)	11.01 down	0.00001
		EST	10.99 down	0
L38928	2209	5,10-methylenetetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	10.97 down	0.0267
AA182568	388	STAT induced STAT inhibitor-2	10.92 down	0.00099
X01388	3667	apolipoprotein C-III	10.9 down	0.01246
A4076326	170	SEC14 (S. cerevisiae)-like 2	10.88 down	0.00616
X06562	3683	growth hormone receptor	10.87 down	0.00001
W89178	3638	transferrin receptor 2	10.85 down	0.00116
D13643	1609	KIAA0018 gene product	10.84 down	0.00058
R62519	2925	EST	10.83 down	0.00243
AA454159	1162	EST	10.81 down	0.00132
R84674	2995	EST	10.76 down	0.00008
H12593	1880	zinc-finger protein 265	10.72 down	0.0056
H61295	1968	CD4 antigen (p55)	10.71 down	0.00925
AA489636	1370	EST	10.7 down	0
		acetyl-Coenzyme A acetyltransferase 1 (acetyl-Coenzyme A thiolase)	10.68 down	0.0002
D10511	1594	thyroxine-binding globulin	10.66 down	0.00024
M14091	2257	EST	10.61 down	0.00083
AA425294	952			

Table 6B. (page 16) Down in Metastatics vs Normal Sample Set 2

AA347674	1753	EST		10.59 down	0.03716
C20653	1578	EST		10.59 down	0.00001
D31815	1648	regucalcin (serenescence marker protein-30)		10.55 down	0.00037
T51150	3136	EST		10.52 down	0.00377
Y00451	3845	aminolevulinatase, delta-, synthase 1		10.52 down	0.00107
N67893	2628	EST		10.48 down	0.00341
T64575	3171	EST		10.46 down	0.00014
AA150776	330	EST		10.45 down	0.00015
R93714	2991	feelin B		10.42 down	0.00043
T72171	3205	thyroxine-binding globulin		10.41 down	0.00163
S77410	3034	angiotensin receptor 1		10.4 down	0
N49595	2537	EST		10.39 down	0.00022
M13143	2249	kaillirein B plasma, (Fletcher factor) 1		10.39 down	0.00019
W90455	3643	alpha-2-macroglobulin		10.35 down	0.00063
		glycine dehydrogenase (decarboxylating; glycine decarboxylase,			
		glycine cleavage system protein P)			
H11739	1876	EST		10.33 down	0.00023
T71776	3203	EST		10.3 down	0.00897
AA454177	1164	EST		10.3 down	0.0008
N73988	2682	apolipoprotein F		10.27 down	0.00083
L27050	2186	ornithine carbamoyltransferase		10.26 down	0.00026
K02100	2123	3-phosphoglycerate dehydrogenase		10.24 down	0.00009
AA236365	509	calmodulin 1 (phosphorylase kinase, delta)		10.23 down	0.00562
AA010750	28	EST		10.22 down	0.00959
R45656	2864	gap junction protein, beta 1, 32kD (connexin 32, Charcot-Marie-		10.21 down	0.00179
		Tooth neuropathy, X-linked)			
X04325	3676	EST		10.17 down	0.00061
R06002	2762	EST		10.15 down	0.00003
T82323	3230	immunoglobulin superfamily, member 4		10.14 down	0
AA017146	36	EST		10.1 down	0.00052
U32989	3347	tryptophan 2,3-dioxygenase		10.07 down	0.02825
AA035457	80	EST		10.06 down	0.00085
N89738	2709	EST		10.06 down	0.00052
N94930	2740	multiple PDZ domain protein		10.06 down	0.00226

Table 6B. (page 17) Down in Metastatics vs Normal Sample Set 2

M93143	2422	plasminogen-like	10.06 down	0.00098
AA448002	1113	putative type II membrane protein	10.05 down	0
M11313	2236	alpha-2-macroglobulin	10.05 down	0.00014
M23234	2299	ATP-binding cassette, sub-family B (MDR/TAP), member 4	10.05 down	0
W90128	3640	X-box binding protein 1	10.04 down	0.00018
AA284795	678	phosphatidylethanolamine N-methyltransferase	10.03 down	0.00019
T38897	3113	androgen induced protein	10 down	0.00486
Y00318	3843	I factor (complement)	10 down	0.00019
T51930	3138	EST	9.99 down	0.00066
N64036	2606	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A	9.99 down	0.00125
AA235873	505	dehydrogenase	9.98 down	0.01687
AA421561	933	H factor (complement)-like 1, H factor 1 (complement)	9.98 down	0.00007
R31641	2813	insulin-like growth factor 2 (somatomedin A)	9.96 down	0.00011
AA490670	1379	EST	9.96 down	0.00454
N59543	2586	PDZ domain containing 1	9.96 down	0.00052
S70004	3028	glycogen synthase 2 (liver)	9.96 down	0.00001
R08548	2778	EST	9.94 down	0.00326
Z11793	3861	selenoprotein P, plasma, 1	9.94 down	0.00021
AA035638	82	EST	9.94 down	0.00541
AA223902	450	EST	9.91 down	0.00003
AA452855	1150	lectin, mannose-binding, 1	9.88 down	0.00428
AA400915	823	EST	9.84 down	0.00351
M17466	2279	coagulation factor XII (Hageman factor)	9.76 down	0.00285
W67147	3565	deleted in liver cancer 1	9.74 down	0.00002
		methylene tetrahydrofolate dehydrogenase (NADP+ dependent),		
		methylene tetrahydrofolate cyclohydrolase, formyltetrahydrofolate		
		synthetase		
H10779	1872	EST	9.73 down	0.00035
R98413	3011	EST	9.71 down	0.00007
N51117	2543	EST	9.68 down	0.00081
J04813	2114	cytochrome P450, subfamily IIIA (nephedipine oxidase), polypeptide	9.67 down	0.0107
R91503	2981	ATP-binding cassette, sub-family C (CFTR/MRP), member 2	9.64 down	0.00584

Table 6B, (page 18) Down in Metastatics vs Normal Sample Set 2

X02176	3669	complement component 9			
D65181	1750	sterol-C5-desaturase (fungal ERG3, delta-5-desaturase)-like	9.61 down	0.00004	
R99591	3015	CD5 antigen-like (scavenger receptor cysteine rich family)	9.56 down	0.00005	
			9.52 down	0.00006	
H56584	1951	4-nitrophenylphosphatase domain and non-neuronal SNAP25-like 1	9.5 down	0	
H94247	2041	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial) cytochrome P450, subfamily IIIA (naphedrine oxidase), polypeptide 3	9.49 down	0.02373	
D00003	1586	gamma-glutamyl carboxylase	9.46 down	0.00001	
R67970	2939	EST	9.45 down	0.00212	
N24879	2459	glutamate dehydrogenase 1	9.44 down	0.00008	
T89978	3238	hydroxysteroid (17-beta) dehydrogenase 2	9.4 down	0.00006	
N23665	2454	EST	9.4 down	0.00055	
W42789	3512	cytochrome P450, subfamily IVF, polypeptide 2	9.38 down	0.00059	
U02388	3277	EST	9.38 down	0.00001	
AA039616	90	EST	9.36 down	0.00009	
N73883	2681	sex hormone-binding globulin	9.35 down	0	
X16349	3709	EST	9.34 down	0.00007	
W61377	3559	histidine ammonia-lyase	9.33 down	0.0012	
H38246	1917	protein Z, vitamin K-dependent plasma glycoprotein	9.25 down	0.00157	
D16626	1622	EST	9.25 down	0.00025	
W87606	3632	EST	9.23 down	0.00085	
AA312946	731	SEC22, vesicle trafficking protein (S. cerevisiae)-like 1	9.21 down	0.00106	
R98074	3009	EST	9.21 down	0.00048	
R64199	2932	EST	9.19 down	0.00387	
AA419608	925	EST	9.19 down	0.00005	
AA459690	1221	EST	9.18 down	0.00732	
N72695	2670	EST	9.18 down	0.00069	
U49082	3372	transporter protein	9.17 down	0.00088	
AA291323	699	BCL2-interacting killer (apoptosis-inducing)	9.15 down	0.00514	
M25079	2305	hemoglobin, beta	9.15 down	0.01399	
AA430028	1008	EST	9.14 down	0.00246	
W55903	3543	adipose differentiation-related protein; adipophilin	9.12 down	0.00459	

Table 6B (page 19) Down in Metastatics vs Normal Sample Set 2

AA083812	175	DKFZP566F123 protein	9.11 down	0.00167
R40899	2843	glycine receptor, beta	9.11 down	0.0009
AA099391	207	myosin, light polypeptide kinase	9.07 down	0.00003
AA281566	690	KIAA0187 gene product	9.07 down	0.00013
AA233369	471	histidine ammonia-lyase	9.06 down	0.0008
AA443658	1079	transmembrane 7 superfamily member 2	9.06 down	0.00048
M14218	2259	argininosuccinate lyase	9.03 down	0.00078
W44745	3517	EST	9.02 down	0.00276
AA479968	1321	arylsulfatase A	9.01 down	0.00224
AA193204	402	Arg/Abi-interacting protein ArgBP2	8.98 down	0.00861
D14694	1616	KIAA0022 gene product	8.98 down	0.00011
Y00317	3842	UDP glycosyltransferase 2 family, polypeptide B4	8.97 down	0.00025
AA480975	1322	EST	8.95 down	0.00259
AA282061	652	KIAA0962 protein	8.95 down	0.01033
R32490	2817	EST	8.95 down	0.00215
R40492	2841	EST	8.89 down	0.00229
N67876	2627	insulin-like growth factor 1 (somatomedin C)	8.89 down	0.00042
T72502	3207	EST	8.87 down	0.00009
T58032	3152	3-hydroxyanthranilate 3,4-dioxygenase	8.86 down	0.00023
AA487503	1356	EST	8.85 down	0.00012
N94367	2739	EST	8.79 down	0.01003
C21130	1583	EST	8.79 down	0.00008
Z84721	3950	hemoglobin, zeta	8.77 down	0.01446
AA609537	1483	hepatic leukemia factor	8.76 down	0.00018
AA489798	1373	hypothetical protein, estradiol-induced	8.75 down	0.00544
N32071	2490	EST	8.75 down	0.00006
AA236796	517	folistatin	8.74 down	0.00862
		glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)	8.7 down	0.0004
M37400	2348	EST	8.67 down	0.00072
T90520	3248	EST	8.64 down	0.00013
H59136	1962	EST	8.62 down	0.00072
T78433	3219	glycogen synthase 2 (liver)	8.61 down	0.00015
N81025	2704	EST		

Table 6B. (page 20) Down in Metastatics vs Normal Sample Set 2

T66189	3177	glutaryl-Coenzyme A dehydrogenase	8.61 down	0.00003
AA405819	865	KIAA0668 protein	8.59 down	0.02034
AA480981	1323	EST	8.59 down	0.00156
AA488843	1362	cornichon-like	8.58 down	0.02131
AA521292	1422	EST	8.58 down	0.00064
AA598417	1426	kinase	8.56 down	0.01638
AA010619	27	EST	8.55 down	0.00057
H65978	2052	EST	8.55 down	0.00046
AA477578	1294	short-chain dehydrogenase/reductase 1	8.53 down	0.01651
AA491001	1388	EST	8.52 down	0.01118
J05158	2117	carboxypeptidase N, polypeptide 2, 83kD	8.52 down	0
AA112101	222	EST	8.5 down	0.00004
X17094	3714	paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)	8.5 down	0
AA101235	214	EST	8.46 down	0.00822
X54380	3727	pregnancy-zone protein	8.44 down	0.00059
AA406126	869	EST	8.43 down	0.00569
M96843	2434	EST	8.42 down	0.02394
N95542	2746	orosomucoid 1	8.41 down	0.00001
AA428325	988	EST	8.36 down	0.00002
AA430011	1006	EST	8.35 down	0.00729
AA182030	387	EST	8.32 down	0.00018
W61378	3560	EST	8.31 down	0
W03796	3467	EST	8.3 down	0.0032
X60673	3749	adenylate kinase 3	8.3 down	0.00016
F08817	1796	EST	8.29 down	0.0077
X15422	3705	mannose-binding lectin (protein C) 2, soluble (opsonic defect)	8.29 down	0.00015
AA398423	795	EST	8.26 down	0.00063
AA412063	895	EST	8.26 down	0.00001
AA458652	1202	EST	8.26 down	0.00001
AA126722	251	O-6-methylguanine-DNA methyltransferase	8.26 down	0.002
R96622	2999	EST	8.25 down	0.00008

Table 6B (page 21) Down in Metastasis vs Normal Sample Set 2

R38709	2832	superoxide dismutase 2, mitochondrial	8.23 down	0.01578
AA397841	780	EST	8.21 down	0
Z40259	3916	EST	8.18 down	0.00002
AA125831	241	myosin, light polypeptide kinase	8.18 down	0.00039
D49387	1666	NADP dependent leukotriene b4 12-hydroxydehydrogenase	8.17 down	0.00972
M58286	2360	tumor necrosis factor receptor superfamily, member 1A	8.15 down	0.00037
W26769	3482	CGI-86 protein	8.14 down	0.00204
AA609519	1482	EST	8.13 down	0.00009
F10276	1814	dual specificity phosphatase 6	8.13 down	0.0001
R10378	2785	fibrinogen-like 1	8.13 down	0.00189
AA257057	586	EST	8.11 down	0.00379
D52097	1682	prostatic binding protein	8.1 down	0.00141
X76717	3794	metallothionein 1L	8.09 down	0.00025
AA447971	1110	EST	8.08 down	0.00035
AA486410	1348	aldehyde dehydrogenase 5 family, member A1 (succinate-semialdehyde dehydrogenase)	8.08 down	0.00485
N34804	2496	DKFZP434I214 protein	8.08 down	0.00028
AA167565	362	EST	8.08 down	0.00046
AA234095	478	EST	8.08 down	0.00394
AA489629	1369	EST	8.08 down	0.00109
AA412481	902	EST	8.07 down	0.00014
N52271	2551	LIM protein (similar to rat protein kinase C-binding enigma)	8.06 down	0.00011
N94146	2738	EST	8.05 down	0
AA004521	8	prostate cancer overexpressed gene 1	8.03 down	0.00027
R49035	2876	EST	8.02 down	0.00991
M59815	2364	complement component 4A	8.02 down	0.00049
HG3044-HT3742		fibronectin 1	8.02 down	0.02094
AA007629	19	EST	8.01 down	0.00001
W33167	3498	EST	8.01 down	0.00026
H98771	2069	BCL2/adenovirus E1B 19kD-interacting protein 3	8 down	0.0018
AA450127	1132	growth arrest and DNA-damage-inducible, beta	7.98 down	0.00078
AA609316	1481	EGF-like-domain, multiple 5	7.97 down	0.00011
W97454	3629	homogentisate 1,2-dioxygenase (homogentisate oxidase)	7.93 down	0.00149

Table 6B, (page 22) Down in Metastatics vs Normal Sample Set 2

N63698	2603	EST			7.92 down	0.00001
Z24725	3867	mitogen inducible 2			7.9 down	0
Z30425	3875	nuclear receptor subfamily 1, group 1, member 3			7.88 down	0.00006
F03969	1785	matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase)			7.87 down	0.00014
X68733	3778	alpha-1-antitrypsin			7.87 down	0.03266
AA599211	1445	short-chain dehydrogenase/reductase 1			7.85 down	0.00911
AA079758	174	solute carrier family 25 (mitochondrial carrier, citrate transporter), member 1			7.83 down	0.00359
AA398124	787	growth factor receptor-bound protein 14			7.82 down	0.00009
AA416873	908	EST			7.82 down	0.00005
M61853	2369	cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 18			7.82 down	0.00024
W95795	3662	EST			7.8 down	0.00359
R69417	2941	EST			7.79 down	0.03795
AA430044	1010	EST			7.78 down	0.00124
AA460449	1228	EST			7.77 down	0.00111
R73485	2957	EST			7.77 down	0.0009
W20467	3479	EST			7.76 down	0.00008
AA481432	1328	fibronectin 1			7.76 down	0.0081
L29433	2191	coagulation factor X			7.74 down	0.00244
AA261954	604	EST			7.69 down	0.00334
T16484	3070	EST			7.69 down	0.00805
AA443272	1074	EST			7.68 down	0.00869
AA282516	660	7-dehydrocholesterol reductase			7.67 down	0.0008
AA459668	1219	3-hydroxyisobutyl-Coenzyme A hydrolase			7.62 down	0.00225
AA431773	1026	EST			7.61 down	0.00063
X92720	3823	phosphoenolpyruvate carboxykinase 2 (mitochondrial)			7.6 down	0.00001
AA142849	306	EST			7.59 down	0.00804
W90766	3646	EST			7.58 down	0.00057
N40320	2513	EST			7.56 down	0.01584
AA410255	882	EST			7.56 down	0.00043
T72906	3209	EST			7.56 down	0.00062

Table 6B. (page 23) Down in Metastatics vs Normal Sample Set 2

M65292	2386	H factor (complement)-like 1, H factor 1 (complement)	7.56 down	0.01152
R59221	2911	progesterone binding protein	7.54 down	0.00159
N77326	2695	EST	7.51 down	0.00542
A4400864	821	EST	7.51 down	0.02237
HG2379-HT3996	486	serine hydroxymethyltransferase 1 (soluble) CCAAT/enhancer binding protein (C/EBP), delta solite carrier family 25 (mitochondrial carrier; citrate transporter), member 1	7.49 down 7.48 down	0.00093 0.03318
AA435777	1047	tetranectin (plasminogen-binding protein)	7.48 down	0.00613
W73989	3591	glutamate dehydrogenase 1	7.45 down	0.00091
X67491	3773	collagen, type XVIII, alpha 1	7.45 down	0.00019
AA292773	713	nephrosis 1, congenital, Finnish type (nephtrin)	7.44 down	0.00158
U95090	3463	methylmalonyl Coenzyme A mutase	7.44 down	0.00004
M65131	2384	similar to yeast BET3 (S. cerevisiae)	7.43 down	0.00038
AA398892	800	EST	7.43 down	0.00065
AA621274	1519	B-factor, properdin	7.43 down	0.01197
T72268	3206	EST	7.41 down	0
AA010205	23	EST	7.41 down	0.00159
R32440	2816	EST	7.39 down	0.00565
N63391	2599	cytochrome b-5	7.39 down	0.02431
M22976	2297	UDP glycosyltransferase 2 family, polypeptide B15	7.38 down	0.00005
U08854	3292	protein C (inactivator of coagulation factors Va and VIIIa)	7.37 down	0.01866
M12712	2246	EST	7.37 down	0.00091
AA256341	578	EST	7.34 down	0.04562
AA256171	575	EST	7.34 down	0.001
AA436489	1053	EST	7.34 down	0.00062
AA099225	206	EST	7.29 down	0.00022
T77729	3217	pyruvate carboxylase protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform	7.28 down	0
AA191310	397	DKFZP27G051 protein	7.28 down	0.01745
AA497052	1408	EST	7.28 down	0.00024
W85847	3616	complement component 8, gamma polypeptide	7.28 down	0.00206
AA344866	752	serine hydroxymethyltransferase 1 (soluble)	7.27 down	0.00041
L11931	2159			

Table 6B. (page 24) Down in Metastatics vs Normal Sample Set 2

AA429904	1005	EST	hydroxylase	7.26 down	0.00524
T23986	3085	EST	hydroxylase	7.26 down	0.0062
AA459420	1217	EST	hydroxylase	7.25 down	0.0214
W94942	3658	EST	hydroxylase	7.23 down	0.00137
L00972	2133	EST	hydroxylase	7.19 down	0.00008
R48307	2869	EST	hydroxylase	7.18 down	0.00007
AA442334	1089	EST	hydroxylase	7.15 down	0.00018
AA243582	529	EST	hydroxylase	7.15 down	0.0021
AA437235	1060	EST	hydroxylase	7.15 down	0.01455
N67378	2625	EST	hydroxylase	7.14 down	0
AA047151	116	EST	hydroxylase	7.13 down	0.00007
R02572	2756	EST	hydroxylase	7.1 down	0.00059
M63509	2376	EST	hydroxylase	7.06 down	0.03887
U49248	3373	EST	hydroxylase	7.06 down	0.00067
D90042	1767	EST	hydroxylase	7.06 down	0
T67231	3180	EST	hydroxylase	7.04 down	0.03554
AA293327	716	EST	hydroxylase	7.04 down	0.04377
X02750	3670	EST	hydroxylase	7.04 down	0.00079
AA460661	1229	EST	hydroxylase	7.02 down	0.00063
W28798	3491	EST	hydroxylase	7.01 down	0.00017
AA428900	992	EST	hydroxylase	7.01 down	0.00037
R33146	2818	EST	hydroxylase	7 down	0.00043
AA404352	850	EST	hydroxylase	7 down	0.00059
L40401	2211	EST	hydroxylase	6.97 down	0.00079
M31627	2330	EST	hydroxylase	6.97 down	0.00052
AA608802	1470	EST	hydroxylase	6.95 down	0.00263
AA285053	681	EST	hydroxylase	6.95 down	0.00125
N59474	2583	EST	hydroxylase	6.93 down	0.00337
AA258567	597	EST	hydroxylase	6.92 down	0.00096
N91087	2716	EST	hydroxylase	6.91 down	0.00109
N81036	2705	EST	hydroxylase	6.89 down	0.00276

Table 6B. (page 25) Down in Metastatics vs Normal Sample Set 2

H73535	1996	EST			0.00202
Y00339	3844	carbonic anhydrase II		6.89 down	0
AA057678	143	EST		6.88 down	0.00078
AA609834	1493	EST		6.84 down	0.00048
AA342446	748	insulin receptor		6.83 down	0.00412
H06935	1855	electron-transferring-flavoprotein dehydrogenase		6.82 down	0.00105
H27442	1910	erythrocyte membrane protein band 7.2 (stomatrin)		6.81 down	0.00083
D79276	1722	succinate-CoA ligase, GDP-forming, beta subunit		6.8 down	0.00047
AA609164	1480	cytochrome b-561		6.8 down	0.02298
W27023	3484	neuroendocrine-specific protein C like (foccon)		6.79 down	0.00805
N78902	2699	leptin receptor		6.79 down	0.0041
X95715	3832	ATP-binding cassette, sub-family C (CFTR/MRP), member 6		6.78 down	0.00045
T95515	3260	KIAA0249 gene product		6.77 down	0.0001
H69138	1986	v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog		6.76 down	0.00142
U68233	3411	nuclear receptor subfamily 1, group H, member 4		6.76 down	0.00022
AA143019	309	EST		6.75 down	0.00109
T71021	3201	EST		6.74 down	0.0017
M91432	2419	acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain		6.74 down	0.00008
AA205724	426	EST		6.73 down	0.00027
N59532	2584	aminomethyltransferase (glycine cleavage system protein T)		6.73 down	0.00005
T63364	3189	ficollin (collagen/fibrinogen domain-containing) 3 (Hakata antigen)		6.72 down	0.00383
AA044755	104	EST		6.7 down	0.01228
D59554	1698	EST		6.68 down	0
H66367	1977	EST		6.68 down	0.0001
X68277	3774	dual specificity phosphatase 1		6.68 down	0.0036
R50008	2886	7-dehydrocholesterol reductase		6.67 down	0.00409
C20974	1581	Varin 1		6.66 down	0.00272
R82074	2973	syndecan 1		6.66 down	0.01336
M14058	2256	complement component 1, r subcomponent		6.66 down	0.00229
AA400979	825	calcitonin receptor-like receptor activity modifying protein 3		6.65 down	0.01051
U03056	3279	hyaluronoglucosaminidase 1		6.64 down	0
AA215919	443	F-box protein 7		6.62 down	0.00921
AA426304	962	EST		6.61 down	0.01092

Table 6B. (page 26) Down in Metastasis vs Normal Sample Set 2

AA251114	539	prostate cancer overexpressed gene 1	6.6 down	0.00039
T60407	3160	EST	6.6 down	0.00167
AA416890	909	sphingomyelin phosphodiesterase 1, acid lysosomal (acid sphingomyelinase)	6.6 down	0.00112
AA235233	493	EST	6.59 down	0.00755
H04854	1842	interleukin 1 receptor accessory protein	6.58 down	0.00007
M16447	2270	quinoid dihydropteridine reductase	6.57 down	0.00015
C20911	1580	antithrombin III	6.56 down	0.00175
N70861	2860	EST	6.55 down	0.00001
AA010360	24	EST	6.55 down	0.00027
D00632	1591	glutathione peroxidase 3 (plasma)	6.55 down	0.00121
T69009	3191	quinoid dihydropteridine reductase	6.54 down	0.00145
M13829	2254	v-rf murine sarcoma 3611 viral oncogene homolog 1	6.52 down	0
M72885	2392	putative lymphocyte G0/G1 switch gene	6.5 down	0.03461
AA172372	370	EST	6.48 down	0.00344
D14695	1618	KIAA0025 gene product; MMS-inducible gene	6.47 down	0
AA253129	560	F-box protein FBL11	6.47 down	0.00001
T03651	3046	tubulin, beta polypeptide	6.47 down	0.00843
M94065	2424	dihydroorotate dehydrogenase	6.47 down	0.00013
M35410	2344	insulin-like growth factor binding protein 2 (38kD)	6.45 down	0.04517
Z40305	3917	EST	6.45 down	0.00001
D08056	1705	UDP-glucose dehydrogenase	6.45 down	0.01222
AA195657	419	EST	6.44 down	0.00016
H05985	1851	hypothetical protein	6.43 down	0.04887
AA281440	644	EST	6.43 down	0.01246
W26996	3483	EST	6.42 down	0.00005
U90544	3453	solite carrier family 17 (sodium phosphate), member 2 glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P) transferrin	6.42 down	0.00023
M64590	2381	glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P)	6.41 down	0.00002
H68953	1985	transferrin	6.4 down	0.00132
M20218	2288	coagulation factor XI (plasma thromboplastin antecedent)	6.4 down	0.00004
U26173	3334	nuclear factor, interleukin 3 regulated	6.4 down	0.00001
Z29481	3874	3-hydroxyanthranilate 3,4-dioxygenase	6.39 down	0.00029

Table 6B. (page 27) Down in Metastatics vs Normal Sample Set 2

AA410523	886	EST	6.37 down	0.03506
AA447549	1101	UDP-N-acetylglucosamine pyrophosphorylase 1; Sperm associated antigen 2	6.37 down	0.02815
X85116	3811	erythrocyte membrane protein band 7.2 (stomatrin)	6.37 down	0.00356
W72079	3578	EST	6.36 down	0.00641
AA621209	1516	similar to Caenorhabditis elegans protein C42C1.9	6.34 down	0.00144
W68721	3569	cleft lip and palate associated transmembrane protein 1	6.34 down	0.01504
R38185	2828	EST	6.32 down	0.00063
H41084	1924	EST	6.31 down	0.0227
AA426609	968	EST	6.28 down	0.01233
H05974	1850	EST	6.28 down	0.00549
X83618	3810	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)	6.27 down	0.02099
AA431337	1020	EST	6.26 down	0.00053
AA234817	490	EST	6.22 down	0.00099
AA398102	786	KIAA0429 gene product	6.22 down	0.00396
AA481670	1330	retinal short-chain dehydrogenase/reductase retSDR2	6.2 down	0.0078
AA608837	1472	EST	6.2 down	0.00006
N64535	2609	EST	6.19 down	0.00106
AA234527	483	nuclear receptor subfamily 3, group C, member 1	6.19 down	0.00864
M10942	2233	metallothionein 1E (functional)	6.19 down	0.00428
W42996	3514	EST	6.18 down	0.00587
Z47553	3936	flavin containing monooxygenase 5	6.17 down	0.00011
N36001	2503	EST	6.16 down	0.00222
N27670	2473	progesterone membrane binding protein	6.15 down	0.00321
N75203	2690	EST	6.15 down	0.00181
R06271	2765	EST	6.14 down	0.00063
R40946	2844	crystallin, zeta (quinone reductase)	6.14 down	0.00156
U66674	3407	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	6.13 down	0.00127
D82061	1741	Kee gene, mouse, human homolog of	6.1 down	0.00104
R06977	2774	glucokinase (hexokinase 4) regulatory protein	6.1 down	0.00049
W67781	3633	EST	6.1 down	0.00045
M15465	2266	pyruvate kinase, liver and RBC	6.1 down	0.00069

Table 6B. (page 28) Down in Metastatics vs Normal Sample Set 2

AA609773	1489	EST		6.09 down	0.01103
AA197311	422	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor		6.07 down	0.00053
M13890	2252	complement component 1 inhibitor (angioedema, hereditary)		6.07 down	0.00045
R48540	2872	EST		6.05 down	0.00086
AA453770	1157	EST		6.04 down	0.00524
AA455097	1172	EST		6.03 down	0.00419
D82422	1745	ferroportin 1; iron regulated gene 1		6.01 down	0.02351
F13702	1826	EST		6.01 down	0.00064
M83652	2407	properdin P factor, complement		6 down	0.00002
L11708	2158	hydroxysteroid (17-beta) dehydrogenase 2		5.99 down	0.01516
H71861	1993	glucan (1,4-alpha)-, branching enzyme 1 (glycogen branching enzyme, Andersen disease, glycogen storage disease type IV)		5.97 down	0.00007
X97324	3836	adipose differentiation-related protein; adipophilin		5.97 down	0.04638
AA157799	348	aldo-keto reductase family 7, member A2 (afatoxin aldehyde reductase)		5.96 down	0
M35590	2345	small inducible cytokine A4		5.96 down	0.00604
H02855	1832	EST		5.96 down	0.00458
C16420	1576	EST		5.95 down	0.00119
X07767	3691	protein kinase, cAMP-dependent, catalytic, alpha		5.94 down	0.00028
AA045870	108	EST		5.93 down	0.00017
Z80345	3948	acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain		5.93 down	0.0024
N83764	2736	EST		5.92 down	0.0109
AA031543	68	translocation protein 1		5.92 down	0.00405
AA620667	1506	protein tyrosine phosphatase type IVA, member 1		5.92 down	0.00206
M59499	2363	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)		5.92 down	0.0005
X91148	3818	microsomal triglyceride transfer protein (large polypeptide, 88kD)		5.91 down	0.00045
R09053	2782	EST		5.9 down	0.0002
Z39476	3905	EST		5.9 down	0.00687
AA233347	470	zinc finger protein 216		5.9 down	0.0041
M13232	2251	coagulation factor VII (serum prothrombin conversion accelerator)		5.9 down	0.00014
T69384	3197	period (Drosophila) homolog 1		5.88 down	0.01219

Table 6B. (page 29) Down in Metastatics vs Normal Sample Set 2

D51279	1679	ovarian granulosa cell protein (13kD)	5.88 down	0.01271
M64554	2380	coagulation factor XIII, B polypeptide	5.87 down	0.00011
C02099	1560	CGI-131 protein	5.85 down	0.02377
Y08409	3851	thyroid hormone responsive SPOT14 (rat) homolog	5.84 down	0.00455
H99727	2080	adipose differentiation-related protein; adipophilin	5.83 down	0.04346
L13278	2163	crystallin, zeta (quinone reductase)	5.83 down	0.0034
S77356	3033	EST	5.83 down	0.00122
M16474	2271	butyrylcholinesterase	5.82 down	0.00113
U32576	3346	apolipoprotein C-IV	5.81 down	0.04343
D37931	1650	ribonuclease, RNase A family, 4	5.81 down	0.00836
A4446587	1091	EST	5.8 down	0.00012
R93908	2993	EST	5.8 down	0.02699
AA086201	185	EST	5.8 down	0.00012
AA164586	359	estrogen receptor 1	5.8 down	0.00182
AF007216	1550	solute carrier family 4, sodium bicarbonate cotransporter, member 4	5.79 down	0.00005
AA479498	1314	EST	5.78 down	0.01489
AA424813	948	EST	5.77 down	0.00503
H03348	1833	claudin 1	5.77 down	0.0001
R62173	2923	UDP-glucose dehydrogenase	5.76 down	0.0006
Z39976	3912	EST	5.76 down	0.00012
AA219039	446	EST	5.76 down	0.00053
AA608751	1469	EST	5.76 down	0.01404
H03364	3259	EST	5.75 down	0.00604
T90841	1867	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	5.74 down	0.03125
T03441	3250	EST	5.74 down	0.01876
AA424307	3043	cytochrome b-561	5.74 down	0.02781
AA398386	944	EST	5.73 down	0.0074
R43910	793	EST	5.71 down	0.00007
U12778	2851	EST	5.71 down	0
AA255903	3300	acyl-Coenzyme A dehydrogenase, short/branched chain	5.68 down	0.00116
	573	CD39-like 4	5.67 down	0.01687

Table 68. (page 30) Down in Metastatics vs Normal Sample Set 2

AA252289	552	quinolinate phosphoribosyltransferase (nicotinate-nucleotide	5.66 down	0.01389
AA262766	609	pyrophosphorylase (carboxylating))	5.66 down	0.03832
T64887	3172	protein phosphatase 5, catalytic subunit	5.66 down	0.00349
D11802	1597	angiotensinogen	5.65 down	0.00009
D45714	1664	EST	5.64 down	0.00384
U70732	3414	glutamic-pyruvate transaminase (alanine aminotransferase)	5.64 down	0.00146
H88675	2022	EST	5.63 down	0.00554
AA442342	1070	EST	5.62 down	0.00052
T79863	3225	EST	5.62 down	0.00074
AA454733	1169	EST	5.61 down	0.01182
W72972	3584	EST	5.61 down	0.00939
N85495	2741	EST	5.61 down	0.00308
J03764	2097	plasminogen activator inhibitor, type I	5.6 down	0.02196
L07956	2148	glucan (1,4-alpha-), branching enzyme 1 (glycogen branching	5.6 down	0.00029
AA090439	192	enzyme, Andersen disease, glycogen storage disease type IV)	5.58 down	0.00501
AA419507	924	ribosomal protein S6	5.58 down	0.00578
AA236982	520	EST	5.56 down	0.01542
L35546	2203	sterol carrier protein 2	5.56 down	0.0005
M16967	2275	glutamate-cysteine ligase (gamma-glutamylcysteine synthetase),	5.56 down	0.00047
AB002328	1536	regulatory (30.8kD)	5.55 down	0.00016
AA450281	1134	coagulation factor V (proaccelerin, labile factor)	5.55 down	0.00004
W47175	3531	calchaurin binding protein 1	5.54 down	0.00014
N52845	2553	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 2	5.53 down	0.00086
AA425782	956	EST	5.52 down	0.03433
R10684	2787	KIAA0874 protein	5.51 down	0.00741
AA436926	1059	EST	5.5 down	0.00984
AA452598	1148	genethonin 1	5.49 down	0.00163
D11756	1596	EST	5.49 down	0.01272
AA223335	449	propionyl Coenzyme A carboxylase, beta polypeptide	5.49 down	0.02761
D87436	1761	KIAA0249 gene product	5.49 down	0.00333

Table 6B. (page 31) Down in Metastats vs Normal Sample Set 2

J04080	2105	complement component 1, s subcomponent	5.48 down	0.0239
X65962	3766	cytochrome P450, subfamily I1C (mephenytoin 4-hydroxylase)	5.47 down	0.00014
AA443822	1082	EST	5.46 down	0.02538
AA485089	1341	EST	5.46 down	0.00044
AA032048	72	EST	5.45 down	0.00383
AA400471	816	EST	5.45 down	0.0056
AA490159	1374	glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1	5.44 down	0
M12174	2242	ras homolog gene family, member B	5.44 down	0.0088
U11313	3296	sterol carrier protein 2	5.44 down	0.00187
N65959	2611	EST	5.43 down	0.00044
AA482594	1337	EST	5.42 down	0.00387
AA455965	1180	phosphatidylinositol glycan, class B	5.41 down	0.00004
N23761	2456	DKFZP586G011 protein	5.41 down	0.00448
U49352	3374	2,4-dienoyl CoA reductase 1, mitochondrial	5.41 down	0.02371
R63545	2926	EST	5.4 down	0.00202
AA258308	590	EST	5.4 down	0.00023
R34362	2821	KIAA0327 gene product	5.4 down	0.04615
AA621192	1515	EST	5.39 down	0.0016
T69020	3192	EST	5.39 down	0.00383
AA598679	1434	EST	5.37 down	0.00467
R43365	2849	EST	5.37 down	0.00103
AA455987	1183	EST	5.36 down	0.00029
C01257	1554	EST	5.35 down	0.0608
D31716	1647	basic transcription element binding protein 1	5.35 down	0.00086
L05779	2140	epoxide hydrolase 2, cytoplasmic	5.35 down	0.00006
		UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase	5.34 down	0.00118
AA490775	1380	kinase	5.33 down	0.00391
R15825	2791	KIAA0946 protein; Huntingtin interacting protein H	5.33 down	0.00331
AA342771	749	EST	5.32 down	0.02494
F10466	1820	EST	5.31 down	0.00075
S72370	3029	pyruvate carboxylase	5.31 down	0.00039
N27834	2474	alpha2,3-sialyltransferase	5.31 down	0.00039
D31117	1640	ribosome binding protein 1 (dog 180KD homolog)	5.3 down	0.02749

Table 6B. (page 32) Down in Metastatics vs Normal Sample Set 2

	71	EST			
AA032005	2526	adaptor-related protein complex 2, mu 1 subunit	5.3 down	0.01202	
N48315	3048	cathepsin F	5.3 down	0.0149	
T08879	3668	insulin receptor	5.29 down	0.0008	
Z24459	3866	mature T-cell proliferation 1	5.29 down	0.0001	
AA236230	508	EST	5.29 down	0.00001	
AA258353	593	EST	5.28 down	0.01517	
N64017	2605	EST	5.28 down	0.00193	
X90999	3817	hydroxycyl glutathione hydrolases; glyoxalase 2	5.27 down	0.00022	
AA347717	754	EST	5.27 down	0.00047	
U19523	3319	GTP cyclohydrolase 1 (dopa-responsive dystonia)	5.25 down	0.00207	
		cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 3	5.25 down	0.00029	
J04449	2110	EST	5.25 down	0.01583	
AA428150	985	EST	5.24 down	0.00167	
N20113	2438	EST	5.24 down	0.01346	
N70057	2653	DNA segment on chromosome 6 (unique) 49 expressed sequence	5.24 down	0.01178	
N62652	2592	EST	5.24 down	0.03006	
AA461057	1234	nuclear localization signal deleted in velocardiofacial syndrome	5.22 down	0.00051	
		guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	5.22 down	0.01278	
X04828	3680	Autosomal Highly Conserved Protein	5.21 down	0.0009	
AA044842	105	EST	5.2 down	0.00318	
AA005358	14	amplified in osteosarcoma	5.19 down	0.00895	
N25082	2462	EST	5.19 down	0.0014	
Z39059	3896	EST	5.19 down	0.00001	
J04056	2104	carboxyl reductase 1	5.19 down	0.00045	
U00115	3271	B-cell CLL/lymphoma 6 (zinc finger protein 51)	5.18 down	0.00001	
AA046674	112	EST	5.17 down	0.02561	
C20610	1579	EST	5.17 down	0.00514	
		5,10-methylenetetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	5.17 down	0.00726	
L38928	2209	growth factor receptor-bound protein 14	5.16 down	0.00199	
L76687	2227	EST	5.16 down	0.00158	
AA456055	1185	ATP-binding cassette, sub-family A (ABC1), member 5	5.16 down	0.00012	
H14372	1883				

Table 6B. (page 33) Down in Metastatics vs Normal Sample Set 2

H88359	2020	nuclear factor (erythroid-derived 2)-like 2	5.16 down	0.01253
U60205	3400	sterol-C4-methyl oxidase-like	5.16 down	0.00061
N79778	2701	extracellular matrix protein 2, female organ and adipocyte specific	5.15 down	0.00286
H54285	1947	EST	5.14 down	0.00426
M93439	2437	transducin-like enhancer of split 4, homolog of Drosophila E(sp1)	5.14 down	0.00001
AA094999	204	zinc finger protein 216	5.12 down	0.0257
		UDP-N-acetylglucosamine pyrophosphorylase 1; Sperm associated		
AA114949	228	antigen 2	5.12 down	0.01028
AA430666	1016	EST	5.12 down	0.00377
AA149253	323	EST	5.12 down	0.00863
R48732	2875	EST	5.12 down	0.00837
L36033	2204	stromal cell-derived factor 1	5.1 down	0.00603
F10875	1824	EST	5.09 down	0.00004
H98083	2067	EST	5.09 down	0.00025
AA258350	592	EST	5.08 down	0.00035
AA191014	396	EST	5.07 down	0.01455
AA478441	1302	calhepsin F	5.07 down	0.00752
AA599472	1451	succinate-CoA ligase, GDP-forming, beta subunit	5.07 down	0.00447
D79887	1723	KIAA1053 protein	5.06 down	0.00047
		glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8KD)		
H93053	2034	EST	5.06 down	0.01029
W45560	3522	EST	5.06 down	0.00996
AA443756	1080	EST	5.05 down	0.00341
D51199	1677	EST	5.05 down	0.00192
AA620343	1500	EST	5.04 down	0.00407
T15482	3059	EST	5.04 down	0.00233
H46001	1931	EST	5.03 down	0.00563
R51831	2890	EST	5.03 down	0.00761
W57821	3545	EST	5.03 down	0.00277
W63728	3562	EST	5.03 down	0.00311
AA609574	1485	EST	5.03 down	0
N62523	2591	hepatic leukemia factor	5.02 down	0.00087
AA449306	1122	EST	5.01 down	0.0006

Table 68. (page 34) Down in Metastatics vs Normal Sample Set 2

AA279533	627	EST		5.01 down	0.04448
N67105	2623	EST		5.01 down	0.00176
S74728	3032	antiquitin 1		5.01 down	0.00008
AA070091	153	EST		5 down	0
AA292086	705	EST		5 down	0.00161
R82837	2975	KIAA0970 protein		5 down	0.00181
AA486567	1350	EST		5 down	0.00002
H78628	2003	EST		4.98 down	0.00729
AA416836	910	5-methyltetrahydrofolate-homocysteine methyltransferase reductase		4.98 down	0.00632
AA400534	824	EST		4.98 down	0.02013
D31381	1644	dynein, axonemal, light polypeptide 4		4.97 down	0.01806
AA210850	431	EST		4.97 down	0.00735
L41067	2213	nuclear factor of activated T-cells, cytoplasmic 3		4.96 down	0.00473
AA450114	1131	EST		4.96 down	0.01238
X92744	3824	defensin, beta 1		4.96 down	0.01804
X07619	3689	cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., - metabolising), polypeptide 7a (pseudogene)		4.96 down	0.00004
AA406125	868	EST		4.95 down	0.01027
M95767	2431	chitinase, di-N-acetyl-		4.94 down	0.00004
H03945	1835	EST		4.94 down	0.02603
X96752	3834	L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain		4.94 down	0.00359
AA282089	653	EST		4.93 down	0.00108
AA463194	1244	KIAA1037 protein		4.92 down	0.01866
W81053	3607	EST		4.91 down	0.00164
R06764	2771	apolipoprotein B (including Ag(x) antigen)		4.91 down	0.00167
X88528	3745	ATP-binding cassette, sub-family D (ALD), member 3		4.91 down	0.00728
AA425309	953	nuclear factor I/B		4.9 down	0.00466
AA451836	1137	EST		4.9 down	0.01412
H81456	2030	nuclear receptor subfamily 1, group H, member 4 soluble carrier family 25 (mitochondrial carrier; citrate transporter), member 1		4.9 down	0.00255
W86850	3628	electron-transferring-flavoprotein dehydrogenase		4.9 down	0.03105
S89232	3026			4.9 down	0.00017

Table 6B. (page 35) Down in Metastatics vs Normal Sample Set 2

X62822	3755	siyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase)	4.89 down	0.00274
W60002	3552	plastin 3 (T isoform)	4.88 down	0.01694
U51333	3382	hexokinase 3 (white cell)	0.00055	0.00055
R56094	2904	EST	0.00214	0.00214
AA314457	733	synaptonemal complex protein 3	4.86 down	0.0013
N90820	2714	DKFZP668B1346 protein	4.86 down	0.03008
T98199	3266	EST	0.00431	0.00431
D61991	1706	EST	4.84 down	0.00005
AA446342	1088	seven in absentia (Drosophila) homolog 1	4.84 down	0.00015
U53003	3387	ES1 (zebrafish) protein, human homolog of	4.84 down	0.00077
D87466	1763	KIAA0276 protein	4.83 down	0.0007
D45558	1663	EST	4.83 down	0.01044
AA046747	114	EST	4.82 down	0.00022
AA464188	1256	EST	0.03208	0.03208
N26184	2466	MYL protein	4.82 down	0.00056
AA056482	141	EST	4.82 down	0.00199
AA370359	767	KIAA0382 protein; leukemia-associated rho guanine nucleotide exchange factor (GEF)	4.82 down	0.01077
N54311	2563	EST	4.82 down	0.00183
L07077	2145	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	4.82 down	0.00403
U68494	3412	EST	4.82 down	0.00881
M55513	2354	potassium voltage-gated channel, shaker-related subfamily, member 5	4.81 down	0.02141
W74158	3593	EST	4.81 down	0.00233
D16294	1619	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	4.81 down	0.03921
X13227	3695	D-amino-acid oxidase	4.81 down	0.0002
AA417373	917	EST	4.8 down	0.01342
F09350	1801	EST	4.79 down	0.00088
AA233837	474	EST	4.79 down	0.0034
N29353	2476	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	4.78 down	0.00019
AA291749	703	estrogen receptor 1	4.78 down	0.00059

Table 6B. (page 36) Down in Metastatics vs Normal Sample Set 2

AA461303	1238	DKFZP586D1519 protein	4.77 down	0.0438
AA490620	1378	EST	4.77 down	0.00201
H94648	2044	EST	4.77 down	0.00286
AA228119	462	pre-B-cell colony-enhancing factor	4.77 down	0.00031
AA449327	1123	EST	4.77 down	0.01248
X00351	3665	actin, beta	4.76 down	0.0003
L05144	2139	phosphoenolpyruvate carboxykinase 1 (soluble)	4.76 down	0.02289
N49214	2535	EST	4.74 down	0.00064
N59089	2580	EST	4.74 down	0.00055
M35590	2345	small inducible cytokine A4	4.74 down	0.01225
T41047	3119	EST	4.74 down	0.00015
M55871	2355	protein Z, vitamin K-dependent plasma glycoprotein	4.74 down	0.00078
AA400834	820	EST	4.73 down	0.01523
X57025	3739	insulin-like growth factor 1 (somatomedin C)	4.72 down	0.00087
AA432168	1031	S-adenosylhomocysteine hydrolase-like 1	4.71 down	0.01377
AA435753	1045	EST	4.71 down	0.00078
AA227452	455	EST	4.7 down	0.02345
T70087	3199	EST	4.7 down	0.00173
AA477919	1293	EST	4.69 down	0.00141
AA194075	406	nuclear receptor coactivator 4	4.69 down	0.00862
AA424672	946	dermatopontin	4.69 down	0.00843
U03105	3280	proline-rich protein with nuclear targeting signal	4.69 down	0.00017
X78892	3799	butyrate response factor 2 (EGF-response factor 2)	4.68 down	0.01995
W45051	3518	EST	4.68 down	0.00433
W80609	3603	EST	4.68 down	0.01729
N53549	2558	cytochrome P450, subfamily 1U (arachidonic acid epoxidase) polypeptide 2	4.68 down	0.00818
F09578	1804	core-binding factor, runt domain, alpha subunit 2; translocated to, 3	4.66 down	0.04463
H98071	2066	EST	4.66 down	0.03722
N59283	2582	EST	4.65 down	0.02343
N72259	2669	cornichon-like	4.65 down	0.0054

Table 6B. (page 37) Down in Metastatics vs Normal Sample Set.2

X59812	3747	cytochrome P-450, subfamily XXV11A (steroid 27-hydroxylase,	4.65 down	0.036
X78706	3798	cerebrotendinous xanthomatosis), polypeptide 1	4.65 down	0.00442
M31169	2325	carbamate acetyltransferase	4.65 down	0.00467
R22905	2800	propionyl Coenzyme A carboxylase, beta polypeptide	4.64 down	0.0043
D80050	1726	EST	4.64 down	0.01001
AA258813	600	EST	4.63 down	0.02395
AA256666	583	EST	4.63 down	0.0018
AA004905	11	KIAA0937 protein	4.63 down	0.00082
M35590	2345	small inducible cytokine A4	4.62 down	0.01268
AA069768	151	hevin	4.62 down	0.00202
AA419622	926	interleukin 1 receptor, type I	4.62 down	0.00386
M27492	2312	diaphanous (Drosophila, homolog) 1	4.62 down	0.0082
AA090434	191	EST	4.61 down	0.01704
AA233763	472	EST	4.61 down	0.00004
AA151210	333	EST	4.61 down	0.00008
M23263	2300	androgen receptor (dihydrotestosterone receptor; testicular	4.6 down	0.00005
H40149	1921	feminization; spinal and bulbar muscular atrophy; Kennedy disease)	4.59 down	0.00112
U19495	3318	KIAA0937 protein	4.59 down	0.00011
AA436690	1057	stromal cell-derived factor 1	4.58 down	0.00948
N29319	2475	EST	4.58 down	0.00011
R64144	2931	cAMP responsive element binding protein-like 2	4.58 down	0.00495
T73420	3210	short-chain dehydrogenase/reductase 1	4.58 down	0.00656
D87449	1762	KIAA0260 protein	4.58 down	0.00026
D12485	1600	phosphodiesterase 1/nucleotide pyrophosphatase 1 (homologous to	4.57 down	0.00008
AA211388	433	mouse Ly-41 antigen)	4.56 down	0.02703
AA133215	277	EST	4.55 down	0.02092
AA425836	957	calcitonin receptor-like receptor activity modifying protein 1	4.55 down	0.00035
N45307	2517	EST	4.55 down	0.00006
M12625	2245	lecithin-cholesterol acyltransferase	4.55 down	0.01584

Table 6B. (page 38) Down in Metastatics vs Normal Sample Set 2

AA348284	755	EST		4.54 down	0.00759
H10661	1871	EST		4.54 down	0.00276
AA485413	1344	EST		4.54 down	0.00137
C21238	1584	EST		4.54 down	0.02074
S72370	3029	pyruvate carboxylase		4.54 down	0.0001
AA621290	1421	EST		4.53 down	0.0148
R92737	2987	EST		4.53 down	0.04447
AA250775	537	EST		4.52 down	0.01752
AA052980	122	EST		4.52 down	0.023
AA253459	566	EST		4.51 down	0.00419
N47942	2522	progesterone membrane binding protein		4.51 down	0.00168
T25506	3089	EST		4.51 down	0.00529
R59325	2913	EST		4.48 down	0.00117
U7396	3425	LPS-induced TNF-alpha factor		4.47 down	0.00108
AA280413	638	spleen focus forming virus (SFFV) proviral integration oncogene spl1		4.46 down	0.02062
AA406231	873	KIAA0381 protein		4.46 down	0.04049
AA452454	1144	EST		4.45 down	0.00179
AA431462	1022	EST		4.45 down	0.00956
U79303	3435	protein predicted by clone 23882		4.45 down	0
AA621796	1531	kinesin family member 3B		4.44 down	0.00332
L76571	2226	nuclear receptor subfamily 0, group B, member 2		4.44 down	0.00312
D57823	1690	Sec23 (S. cerevisiae) homolog A		4.43 down	0
AA398257	791	7-dehydrocholesterol reductase		4.43 down	0.04169
AA214542	438	EST		4.43 down	0.00601
Z48199	3939	syndecan 1		4.43 down	0.00408
H88033	2019	KIAA0733 protein		4.42 down	0.02032
W69675	3572	EST		4.42 down	0.00019
C01409	1556	EST		4.41 down	0.01725
R94662	2994	heme-binding protein		4.41 down	0.02301
N70305	2654	EST		4.41 down	0.00078
AA262033	606	EST		4.41 down	0.00054
H57816	1957	EST		4.41 down	0.00206

Table 6B. (page 39) Down In Metastatics vs Normal Sample Set 2

N48787	2530	protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin	4.4 down	0.00292
R44025	2853	EST	4.4 down	0.01325
Z39622	3907	EST	4.4 down	0.00001
N73468	2673	protein S (alpha)	4.4 down	0.00853
R36228	2823	EST	4.39 down	0.00033
T71978	3204	EST	4.39 down	0.0017
AA437265	1061	EST	4.39 down	0.00826
N83155	2728	calmodulin 1 (phosphorylase kinase, delta)	4.39 down	0.0002
Z38161	3881	EST	4.38 down	0.0011
H98910	2071	EST	4.38 down	0.00548
N23730	2455	v-fos FBJ murine osteosarcoma viral oncogene homolog	4.38 down	0.04395
T69164	3194	EST	4.38 down	0.00548
M31667	2331	cytochrome P450, subfamily 1 (aromatic compound-inducible), polypeptide 2	4.38 down	0.00078
AA193297	404	EST	4.37 down	0.04676
AA427783	979	EST	4.37 down	0.0004
N22434	2450	EST	4.37 down	0.01725
W37382	3501	EST	4.37 down	0.00677
AA282971	665	EST	4.37 down	0.03822
D11881	1599	KJAA0962 protein	4.37 down	0.01627
F09979	1809	EST	4.36 down	0.02555
W92771	3652	glycine cleavage system protein H (aminomethyl carrier)	4.36 down	0.0064
AA437295	1062	ribosomal protein L7a	4.35 down	0.00347
AA452559	1147	EST	4.35 down	0.00804
W90583	3645	EST	4.35 down	0.00318
T97234	3284	EST	4.34 down	0.00263
U57721	3394	kynureninase (L-kynurenine hydrolase)	4.34 down	0.0197
T85532	3235	EST	4.33 down	0.00591
AA421244	932	SH3-domain binding protein 5 (BTK-associated) protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	4.32 down	0.007
N25969	2465	EST	4.32 down	0.00304
W73818	3590	EST	4.32 down	0.00385
S90469	3039	P450 (cytochrome) oxidoreductase	4.32 down	0.0182

Table 6B. (page 40) Down in Metastatics vs Normal Sample Set 2

AA258613	598	EST		4.31 down	0.0344
AA001603	3	EST		4.31 down	0.00883
AA258323	591	EST		4.31 down	0.00046
D60769	1703	KIAA0096 protein aldehyde dehydrogenase 9 (gamma-aminobutyraldehyde dehydrogenase, E3 isozyme)		4.31 down	0.00142
U34252	3349	EST		4.31 down	0.00613
AA431480	1023	metallothionein 1L		4.3 down	0.00876
N39163	2508	insulin-like growth factor binding protein 3		4.3 down	0.03917
M35878	2346	iron-responsive element binding protein 1		4.3 down	0.0027
Z11559	3859	UDP-glucose dehydrogenase		4.3 down	0.00066
AA454086	1161	glutamate-ammonia ligase (glutamine synthase)		4.29 down	0.00981
X59834	3748	KIAA1131 protein		4.29 down	0.00255
W58540	3550	EST		4.28 down	0.0184
T81315	3226	EST		4.28 down	0.00187
AA398445	796	EST		4.28 down	0.01764
AA521306	1423	EST		4.27 down	0.00567
R99909	3016	EST		4.27 down	0.00045
		solute carrier family 22 (extraneuronal monoamine transporter), member 3		4.27 down	0.04975
AA460012	1224	microsomal glutathione S-transferase 1		4.27 down	0.00244
U46499	3354	caldesmon 1		4.27 down	0.00037
M83216	2406	EST		4.26 down	0.0057
AA136079	297	putative protein		4.26 down	0.00194
L40401	2211	KIAA0062 protein		4.26 down	0.00101
D31887	1649	paired basic amino acid cleaving system 4		4.26 down	0.00041
M80482	2402	EST		4.25 down	0.00162
N73461	2672	alcohol dehydrogenase 6 (class V)		4.25 down	0.00354
M68895	3368	protein tyrosine phosphatase type IVA, member 1		4.25 down	0.02037
U48296	963	N-acylsphingosine amidohydrolase (acid ceramidase)-like		4.24 down	0.00668
AA426330	3855	serum/glucocorticoid regulated kinase		4.24 down	0.00148
Y10032	1188	general transcription factor IIIA		4.23 down	0.00088
AA456147	1194	EST		4.23 down	0.0102
AA456589	528	lectin, mannose-binding, 1		4.23 down	0.00179
AA243495					

Table 6B. (page 41) Down in Metastatics vs Normal Sample Set 2

AA491000	1385	EST		4.23 down	0.02305
AA133296	278	EST		4.23 down	0.00041
AA299632	728	EST		4.23 down	0.00371
T10322	3052	dhidropyrimidinase-like 2		4.23 down	0.01527
M6233	2432	glutathione S-transferase M1, glutathione S-transferase M2 (muscle), glutathione S-transferase M4		4.23 down	0.04227
N77606	2696	EST		4.22 down	0.00119
Y10659	3856	interleukin 13 receptor, alpha 1		4.22 down	0.00061
AA150891	331	EST		4.22 down	0.01692
AA203222	424	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)		4.21 down	0.00745
AB002311	1535	PDZ domain containing guanine nucleotide exchange factor(GEF)1; RA(Ras/Rap1A-associating)-GEF		4.21 down	0.00476
AA428607	990	ribosomal protein S5 pseudogene 1		4.21 down	0.04305
AA417375	918	EST		4.21 down	0.00231
AA504492	1414	tubulin, alpha, ubiquitous		4.21 down	0.00752
N52985	2554	nidogen (enactin)		4.21 down	0.01385
W81288	3609	protein kinase, interferon-inducible double stranded RNA dependent		4.2 down	0.00007
H08054	1857	EST		4.2 down	0.0009
AA193223	403	EST		4.2 down	0.02416
T48980	3133	calmodulin 1 (phosphorylase kinase, delta)		4.2 down	0.0046
X72012	3786	endoglin (Osler-Rendu-Weber syndrome 1)		4.2 down	0.005
M95585	2429	hepatic leukemia factor		4.2 down	0.00212
AA402006	834	EST		4.19 down	0.00094
AA101632	217	EST		4.19 down	0.00023
F10874	1823	EST		4.19 down	0.00025
L00352	2131	low density lipoprotein receptor (familial hypercholesterolemia)		4.19 down	0.00352
S67325	3023	prolactin Coenzyme A carboxylase, beta polypeptide		4.19 down	0.00151
Z39406	3902	nuclear receptor co-repressor 1		4.18 down	0.00439
D00723	1592	glycine cleavage system protein H (aminomethyl carrier)		4.18 down	0.00543
F13782	1827	LIM binding domain 2		4.17 down	0.00109
H90417	2028	EST		4.17 down	0.015

Table 6B. (page 43) Down in Metastases vs Normal Sample Set 2

R07090	2947	EST			0.02354
A4279550	628	Kruppel-like factor		4.07 down	0.00957
N36250	2505	cellular repressor of E1A-stimulated genes		4.06 down	0.00776
N48574	2529	EST		4.06 down	0.00028
A4255624	571	EST		4.06 down	0.00069
L09717	2153	lysosomal-associated membrane protein 2		4.06 down	0.00034
HG3743-HT2845		caldesmon 1		4.06 down	0.00453
A4188921	393	similar to Caenorhabditis elegans protein C42C1.9		4.05 down	0.004
A4191647	399	ceruloplasmin (ferroxidase)		4.05 down	0.00029
A4084408	179	EST		4.05 down	0.00864
		cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1			
AA418907	922	inhibin, beta B (activin AB beta polypeptide)		4.05 down	0.04276
A4608807	1471	EST		4.05 down	0.00568
A4478416	1300	EST		4.04 down	0.00078
M63967	2378	aldehyde dehydrogenase 5		4.04 down	0.00058
T68083	3184	short-chain dehydrogenase/reductase 1		4.03 down	0.01593
AA446666	1094	EST		4.03 down	0.02369
AA465240	1270	EST		4.03 down	0.0046
W46391	3524	alpha integrin binding protein 63		4.03 down	0.01363
W52821	3541	leucine aminopeptidase		4.02 down	0.03787
AA135958	296	EST		4.02 down	0.00012
AA609774	1490	EST		4.02 down	0.00424
H96614	2054	EST		4.02 down	0.01565
R32036	2815	interleukin 1 receptor-like 1		4.02 down	0.00051
R61740	2922	EST		4.02 down	0.00321
L17128	2167	gamma-glutamyl carboxylase		4.02 down	0.00096
A4348485	757	KIAA0438 gene product		4.01 down	0.04563
AA151676	337	peptidyl arginine deiminase, type II		4.01 down	0.00911
F04944	1795	acyl-Coenzyme A oxidase		4.01 down	0.00242
D63160	1709	ficollin (collagen/fibronogen domain-containing lectin) 2 (fuculin)		4.01 down	0.00391
J03242	2092	insulin-like growth factor 2 (somatomedin A)		4.01 down	0.00042
AA255546	569	EST		4 down	0.00301
AA411764	891	similar to APOBEC1		4 down	0.01491

Table 6B (page 44) Down in Metastatics vs Normal Sample Set 2

AA479488	1313	S-adenosylhomocysteine hydrolase-like 1	4 down	0.0269
R10138	2783	EST	4 down	0.00032
T16478	3069	EST	4 down	0.01041
H71169	1992	putative protein similar to nussy (<i>Drosophila</i>)	4 down	0.00709
X76648	3793	glutaredoxin (thioltransferase)	4 down	0.00211
AA428567	989	EST	3.99 down	0.00788
N22404	2449	EST	3.99 down	0.01152
T90037	3245	EST	3.99 down	0.0016
AA452860	1151	EST	3.99 down	0.00831
H83442	2013	catechol-O-methyltransferase	3.99 down	0.00594
W65888	3619	EST	3.99 down	0.00697
X05409	3681	aldehyde dehydrogenase 2, mitochondrial	3.99 down	0.01029
R00296	2749	EST	3.98 down	0.04632
T69728	3198	heat shock 90kD protein 1, beta	3.98 down	0.00786
AA495820	1393	EST	3.98 down	0.00218
AA400030	806	EST	3.98 down	0.00088
N86130	2613	progesterone membrane binding protein	3.98 down	0.0106
HG2379-HT3997		serine hydroxymethyltransferase 1 (soluble)	3.98 down	0.00306
R42241	2845	EST	3.97 down	0.00129
AA449448	1125	EST	3.97 down	0.00103
N53757	2559	EST	3.97 down	0.00255
AA401376	829	EST	3.97 down	0.00797
M29971	2320	O-6-methylguanine-DNA methyltransferase	3.97 down	0.00424
AA281770	649	seven in absentia (<i>Drosophila</i>) homolog 1	3.96 down	0.00094
AA454184	1165	EST	3.96 down	0.04605
AA255878	572	KIAA0767 protein	3.96 down	0.00592
R52800	2894	EST	3.96 down	0.00749
M68840	2388	monoamine oxidase A	3.96 down	0.01396
U16660	3312	enoyl Coenzyme A hydratase 1, peroxisomal	3.96 down	0.00002
AA281677	648	DKFZP564M2423 protein	3.95 down	0.03606
AA495758	1391	EST	3.94 down	0.00772
W36290	3500	Kreisel (mouse) maf-related leucine zipper homolog	3.94 down	0.02718
AA609011	1476	EST	3.94 down	0.0313

Table 6B. (page 45) Down in Melastatics vs Normal Sample Set 2

T79758	3223	EST		3.94 down	0.00581
W88885	3637	KIA0903 protein		3.94 down	0.00295
AA157112	345	EST		3.94 down	0.02571
AA398422	794	EST		3.94 down	0.00388
U78180	3430	GTP cyclohydrolase I feedback regulatory protein		3.94 down	0.0034
R98774	3013	EST		3.93 down	0.00001
AA435824	1048	EST		3.93 down	0.02764
AA609996	1495	EST		3.93 down	0.00988
M55150	2352	fumarylacetate		3.93 down	0.00213
U50527	3377	EST		3.93 down	0.00123
H11746	1877	EST		3.92 down	0.00012
L09708	2152	complement component 2		3.92 down	0.00693
U20938	3323	dihydropyrimidine dehydrogenase		3.92 down	0.00053
W63785	3564	EST		3.91 down	0.04089
R31917	2814	EST		3.91 down	0.00071
R96417	2997	EST		3.9 down	0.00019
F02245	1776	monoamine oxidase A		3.9 down	0.02943
F02345	1779	EST		3.9 down	0.0033
AA252365	554	EST		3.9 down	0.01796
C14963	1572	nicotinamide nucleotide transhydrogenase		3.9 down	0.0044
T24055	3086	ribosomal protein L26		3.9 down	0.00046
AA599234	1447	murine leukemia viral (bmi-1) oncogene homolog		3.9 down	0.0068
AA253043	559	DKEZP58611419 protein		3.89 down	0.00145
Z40192	3915	EST		3.89 down	0.00223
AA342301	746	EST		3.89 down	0.00038
AA608729	1468	EST		3.89 down	0.01757
AA234561	485	EST		3.88 down	0.02058
H65650	1976	EST		3.88 down	0.0083
N88730	2636	EST		3.88 down	0.00091
T90492	3247	EST		3.88 down	0.00454
M10943	2234	metallothionein 1F (functional)		3.88 down	0
T68510	3186	EST		3.87 down	0.00617
AA448282	1115	EST		3.87 down	0.00217

Table 6B. (page 46) Down in Metastatics vs Normal Sample Set 2

H18997	1893	F-box protein 21	3.87 down	0.00611
AA251837	547	EST	3.87 down	0.00782
AA342337	747	EST	3.87 down	0.0069
L22548	2178	collagen, type XVIII, alpha 1	3.87 down	0.0299
J03805	2098	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	3.87 down	0.0116
H87765	2017	KIAA0626 gene product	3.86 down	0.00131
W94427	3656	EST	3.86 down	0.02649
H97868	2064	EST	3.86 down	0.00362
H97986	2065	EST	3.86 down	0.01534
H18950	1892	EST	3.85 down	0.00192
T10108	3049	EST	3.85 down	0.01155
AA447977	1111	EST	3.85 down	0.00045
T10284	3050	EST	3.84 down	0.00874
Z11737	3860	flavin containing monooxygenase 4	3.84 down	0.00043
U49785	3375	D-dopachrome tautomerase	3.84 down	0.00044
M30185	2321	cholesteryl ester transfer protein, plasma	3.83 down	0.0013
W85765	3615	EST	3.83 down	0.00379
D80218	1728	brain acid-soluble protein 1	3.83 down	0.0137
H88097	1982	EST	3.83 down	0.00797
N49704	2533	nuclear receptor interacting protein 1	3.83 down	0.00144
D16350	1620	SA (rat hypertension-associated) homolog	3.83 down	0.00117
Z31690	3878	lipase A, lysosomal acid, cholesterol esterase (Wolman disease)	3.83 down	0.00103
AA056170	137	EST	3.82 down	0.0083
AA093923	200	EST	3.82 down	0.03924
U50196	3376	adenosine kinase	3.82 down	0.01425
W20276	3477	EST	3.82 down	0.00033
T82254	3228	EST	3.82 down	0.00091
D45529	1662	EST	3.82 down	0.00193
AA043501	98	v-maf musculoaponeurotic fibrosarcoma (avian) oncogene homolog	3.81 down	0.01304
AA376875	770	monoamine oxidase A	3.8 down	0.02746
AA430108	1013	EST	3.8 down	0.04484
AA598746	1437	EST	3.8 down	0.02667

Table 6B. (page 47) Down in Metastatics vs Normal Sample Set 2

AA046840	115	CCAA7	Tienhancer binding protein (C/EBP), delta	3.79 down	0.03319
N21646	2445	EST		3.79 down	0.00079
N68763	2618	EST		3.79 down	0.03015
R97798	3006	EST		3.79 down	0.00015
U73514	3418	hydroxyl-Coenzyme A dehydrogenase, type II		3.79 down	0.01392
HG2090-HT2152		CD163 antigen		3.79 down	0.01078
W45259	3519	EST		3.78 down	0.00069
AA398221	790	calcium/calmodulin-dependent protein kinase (CaM kinase) II beta		3.78 down	0.00019
AA449297	1121	EST		3.78 down	0.00039
AA076249	169	EST		3.78 down	0.00029
AA262349	607	EST		3.78 down	0.00043
X75252	3790	prostatic binding protein		3.78 down	0.00231
AA383961	777	EST		3.77 down	0.01029
W86756	3627	retinoid X receptor, alpha		0.02472	0.02472
J03507	2095	complement component 7		3.77 down	0.00184
X52541	3721	early growth response 1		3.77 down	0.00894
N23817	2457	EST		3.76 down	0.00288
T74884	3216	nuclear receptor coactivator 4		3.76 down	0.02547
X77548	3795	EST		3.76 down	0.00758
F03200	1783	EST		3.75 down	0.01805
R22196	2798	EST		3.75 down	0.02867
R02371	2755	EST		3.75 down	0.00009
M86826	2412	insulin-like growth factor binding protein, acid labile subunit		3.75 down	0.01157
HG4322-HT4592		tubulin, beta polypeptide		3.75 down	0.00554
AA059489	145	RGC32 protein		3.74 down	0.00734
AA010530	25	EST		3.74 down	0.0481
D80312	1730	EST		3.74 down	0.01909
AA426168	960	KIAA0805 protein		3.73 down	0.01477
H51340	1941	EST		3.73 down	0.02643
AA45367	1176	DKFZP586F1018 protein		3.73 down	0.00202
AA481526	1329	EST		3.73 down	0.00002
AA491001	1386	EST		3.73 down	0.01957
D60670	1702	EST		3.73 down	0.00382

Table 6B. (page 48) Down in Metastatics vs Normal Sample Set 2

N75072	2888	EST			0.00379
R97302	3002	EST		3.73 down	0.01887
AA410507	884	EST		3.73 down	0.01703
W46404	3525	EST		3.73 down	0.00116
AA459389	1216	tyrosylprotein sulfotransferase 2		3.72 down	0.02252
H16768	1887	EST		3.72 down	0.00688
EST	2569	EST		3.72 down	0.00741
N54604	2569	EST		3.72 down	0.01717
N62443	1938	EST		3.72 down	0.00005
H49415	2512	EST		3.72 down	0.01771
N40188	2758	EST		3.72 down	0.00008
R05309	2758	EST		3.72 down	0.02325
AA428006	984	DKFZP564B167 protein		3.71 down	0.04902
AA463311	1248	EST		3.71 down	0.00393
N30856	2494	solute carrier family 19 (thiamine transporter), member 2		3.7 down	0.01307
S62539	3021	insulin receptor substrate 1		3.7 down	0.01588
AA179387	379	DKFZP434N126 protein		3.7 down	0.00643
AA235288	494	PTPL1-associated RhoGAP 1		3.7 down	0.00432
AA598926	1441	EST		3.7 down	0.04069
AA099589	210	GDP dissociation inhibitor 2		3.7 down	0.00131
AA382975	773	EST		3.7 down	0.04693
L15702	2165	B-factor, propeptide		3.7 down	0.00038
D13705	1610	cytochrome P450, subfamily IVA, polypeptide 11		3.69 down	0.01115
X14787	3701	thrombospondin 1		3.69 down	0.01547
AA125861	243	EST		3.69 down	0.04841
AA460916	1233	nuclear receptor co-repressor 1		3.68 down	0.01276
AA156336	341	EST		3.68 down	0.00455
H41280	1925	fragile histidine triad gene		3.68 down	0.03578
R00843	2750	KIAA1086 protein		3.68 down	0.0013
Z39431	3904	EST		3.67 down	0.00153
AA426156	959	flavin containing monooxygenase 4		3.67 down	0.00632
Z11737	3860	EST		3.67 down	0.04293
AA283758	670	EST		3.67 down	0.0143
H66840	1978	EST		3.67 down	

Table 6B. (page 49) Down in Metastases vs Normal Sample Set 2

W87824	3634	EST		3.67 down	0.01559
AA287122	686	EST		3.66 down	0.00161
L76927	2228	galactokinase 1		3.66 down	0.00999
AA031548	69	cell division cycle 42 (GTP-binding protein, 25kd)		3.65 down	0.03029
AA400259	813	EST		3.65 down	0.00476
H25124	1903	EST		3.65 down	0.00004
AA279802	631	EST		3.65 down	0.03386
		solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12			
U27699	3339	EST		3.65 down	0.00381
C02460	1562	EST		3.64 down	0.02705
Z29481	3874	3-hydroxyanthranilate 3,4-dioxygenase		3.64 down	0.00096
AA281545	645	EST		3.64 down	0.00002
AA235811	502	EST		3.64 down	0.01272
D86062	1752	ES1 (zebrafish) protein, human homolog of		3.63 down	0.0001
Z41042	3925	EST		3.63 down	0.00943
N69299	2648	EST		3.63 down	0.03776
AA044622	103	EST		3.62 down	0.03789
AA393825	776	EST		3.62 down	0.0065
D80217	1727	H91620p protein		3.61 down	0.01973
N45232	2516	EST		3.61 down	0.01308
U48959	3371	myosin, light polypeptide kinase		3.61 down	0.00084
F09058	1799	EST		3.6 down	0.00595
T90531	3249	EST		3.6 down	0.00301
AA025930	52	EST		3.59 down	0.00372
AA235765	501	KIAA0214 gene product		3.59 down	0.01148
D80905	1735	EST		3.59 down	0.0007
H99935	2085	interleukin 6 signal transducer (gp130, oncostatin M receptor)		3.59 down	0.00366
AA242766	523	EST		3.58 down	0.0151
AA441791	1065	EST		3.58 down	0.00357
F10640	1821	EST		3.58 down	0.00152
AA282886	663	EST		3.57 down	0.00049
AA416723	906	EST		3.57 down	0.01042
H98977	2073	EST		3.57 down	0.00298

Table 6B (page 50) Down in Metastatics vs Normal Sample Set 2

T33011	3103	EST		3.57 down	0.02486
T41232	3121	EST		3.57 down	0.00846
T91348	3253	EST		3.57 down	0.00011
AA427778	978	EST		3.57 down	0.00368
H04142	1836	EST		3.57 down	0.01906
R40556	2842	EST		3.57 down	0.00184
AA032250	73	EST		3.56 down	0.0009
R21232	2797	EST		3.56 down	0.00246
AA127444	252	EST		3.56 down	0.0291
H40424	1922	butyrate response factor 1 (EGF-response factor 1)		3.56 down	0.04066
W15528	3474	EST		3.56 down	0.00424
Z39978	3913	EST		3.56 down	0.04051
L76465	2224	hydroxyprostaglandin dehydrogenase 15-(NAD)		3.56 down	0.00688
HG3417-HT3600		GTP cyclohydrolase 1 (dopa-responsive dystonia)		3.56 down	0.00317
R71491	2953	EST		3.55 down	0.01903
AA040291	94	KIAA0669 gene product		3.55 down	0.00308
N49802	2539	EST		3.55 down	0.00455
N67009	2621	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)		3.55 down	0.00956
H25551	1904	EST		3.54 down	0.00366
R51309	2889	KIAA1077 protein		3.54 down	0.04112
AA039806	91	rnh (Drosophila) homeo box homolog 1 (formerly homeo box 7)		3.53 down	0.00114
AA194146	407	EST		3.53 down	0.00352
AA037357	85	EST		3.53 down	0.02129
AA287550	689	DKFZP434C171 protein		3.53 down	0.00217
AA094507	201	EST		3.52 down	0.04783
AA496423	1399	VW domain binding protein 2		3.52 down	0.01314
AA421052	929	branched chain alpha-ketoadid dehydrogenase kinase		3.52 down	0.00869
X94563	3828	EST		3.52 down	0.00928
W07723	3470	EST		3.51 down	0.00026
X52150	3719	arylsulfatase A		3.51 down	0.00113
AA055992	136	calumenin		3.51 down	0.00604
N64436	2608	EST		3.51 down	0.00441

Table 6B. (page 51) Down in Metastatics vs Normal Sample Set 2

R26904	2804	EST		3.51 down	0.00058
L29008	2189	sorbinol dehydrogenase		3.51 down	0.00825
U79716	3436	reelin		3.51 down	0.00053
AA435591	1038	kinesin family member 3B		3.5 down	0.0001
R12579	2789	EST		3.5 down	0.00137
AA428863	991	EST		3.5 down	0.01726
AA400780	818	EST		3.5 down	0.00107
UA4111	3352	histamine N-methyltransferase		3.5 down	0.00942
U46689	3365	aldehyde dehydrogenase 10 (fatty aldehyde dehydrogenase)		3.5 down	0.01292
Y08374	3850	chitinase 3-like 1 (cartilage glycoprotein-39)		3.5 down	0.04208
H42053	1927	EST		3.49 down	0.01057
AA489061	1367	EST		3.49 down	0.00223
AA400831	819	EST		3.49 down	0.00105
L07033	2144	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase		3.49 down	0
AA056247	138	(hydroxymethylglutaricaciduria)		3.48 down	0.03277
AA496914	1401	v-maf musculoaponeurotic fibrosarcoma (avian) oncogene homolog		3.48 down	0.00361
H13696	1882	EST		3.48 down	0.01796
F08941	1798	EST		3.48 down	0.00428
T91161	3252	EST		3.48 down	0.00002
M60974	2368	growth arrest and DNA-damage-inducible, alpha		3.48 down	0.00209
AA069456	149	KIAA0438 gene product		3.47 down	0.02718
AA218727	445	EST		3.47 down	0.00125
H02848	1831	TEK tyrosine kinase, endothelial (venous malformations, multiple cutaneous and mucosal)		3.47 down	0.0089
AA282238	656	EST		3.47 down	0.00677
AA092596	197	bone morphogenetic protein 6		3.46 down	0.02532
U84569	3444	chromosome 21 open reading frame 2		3.46 down	0.01844
R52949	2896	EST		3.46 down	0.00395
W65886	3618	EST		3.46 down	0.00814
AA455896	1181	glycan 1		3.46 down	0.00887
N93155	2728	calmodulin 1 (phosphorylase kinase, delta)		3.46 down	0.00031
N59231	2581	pyruvate carboxylase		3.45 down	0.02066

Table 6B. (page 52) Down in Metastatics vs Normal Sample Set 2

W73194	3587	dermatopontin	3.45 down	0.02211
N54511	2568	KIAA0265 protein	3.45 down	0.03362
M14636	2262	phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)	3.45 down	0.00133
		dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272		
M18533	2284	ATP-binding cassette, sub-family D (ALD), member 3	3.45 down	0.00313
M81182	2403	EST	3.45 down	0.00499
M23161	2298	midline 2	3.44 down	0.00733
A4427819	980	EST	3.44 down	0.00063
A4430047	1011	EST	3.44 down	0.0016
A4621235	1517	EST	3.44 down	0.0021
A4451911	1139	EST	3.44 down	0.00221
H95514	2023	protein kinase, cAMP-dependent, catalytic, alpha	3.44 down	0.00435
A4017192	37	EST	3.43 down	0.04865
A4235618	499	endothelin receptor type B	3.43 down	0.02127
H99393	2076	secretory carrier membrane protein 3	3.43 down	0.00933
AF005039	1548	EST	3.42 down	0.04953
A4234831	491	EST	3.42 down	0.00206
A4620830	1509	DKFZP5641122 protein	3.42 down	0.02421
N70005	2652	EST	3.42 down	0.04229
T96969	3263	EST	3.42 down	0.00053
A4279112	622	apolipoprotein B (including Ag(x) antigen)	3.42 down	0.01444
H82966	2011	EST	3.42 down	0.00769
AA505198	1419	EST	3.41 down	0.0343
AA429478	998	EST	3.41 down	0.02599
AA463195	1245	EST	3.41 down	0.00413
AA476352	1284	EST	3.41 down	0.02233
F02094	1775	ecotropic viral integration site 5	3.41 down	0.00495
H87144	2016	EST	3.41 down	0.00387
U86529	3450	glutathione S-transferase zeta 1 (maleylacetoacetate isomerase)	3.41 down	0.0118
N49113	2534	EST	3.4 down	0.00162
AA127514	253	EST	3.4 down	0.00045

Table 6B. (page 53) Down in Metastatics vs Normal Sample Set 2

N69216	2645	EST	3.4 down	0.00497
		methylenetetrahydrofolate dehydrogenase (NADP+ dependent), methylenetetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase		
J04031	2103	EST	3.4 down	0.00786
L49169	2221	FBJ murine osteosarcoma viral oncogene homolog B	3.4 down	0.01193
M30269	2323	nidogen (enactin)	3.4 down	0.00026
U21931	3325	fructose-bisphosphatase 1	3.4 down	0.00709
Y00097	3841	annexin A6	3.4 down	0.00233
AA047290	118	EST	3.39 down	0.00024
AA250744	536	EST	3.39 down	0.01137
H26763	1907	EST	3.39 down	0.04188
M30185	2321	cholesteryl ester transfer protein, plasma	3.39 down	0.00089
M25280	2306	selectin L (lymphocyte adhesion molecule 1)	3.39 down	0.004
AA463946	1254	pigment epithelium-derived factor	3.38 down	0.0018
AA279937	634	EST	3.38 down	0.02719
AA426468	966	EST	3.38 down	0.0099
		syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)		
J04621	2113	EST	3.38 down	0.00275
AA461458	1241	EST	3.37 down	0.02427
R17762	2794	EST	3.37 down	0.01822
R43166	2846	EST	3.37 down	0.00919
R97711	3004	EST	3.37 down	0.00838
AA112209	223	acyl-Coenzyme A dehydrogenase, long chain	3.37 down	0.00084
		SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1		
M88163	2415	chromatin, subfamily a, member 1	3.37 down	0.00098
U02020	3276	pre-B-cell colony-enhancing factor	3.37 down	0.01112
N48180	2525	EST	3.36 down	0.00543
T16269	3066	EST	3.36 down	0.00282
AA134549	288	EST	3.36 down	0.03438
AA458923	1207	EST	3.36 down	0.00421
D80408	1731	EST	3.36 down	0.00102
AA293485	718	EST	3.36 down	0.02799
W31478	3495	EST	3.36 down	0.01511

Table 6B. (page 54) Down in Metastatics vs Normal Sample Set 2

M59916	2365	sphingomyelin phosphodiesterase 1, acid lysosomal (acid sphingomyelinase)	3.36 down	0.0038
M23263	2300	androgen receptor (dihydrotestosterone receptor; testicular feminization; spinal and bulbar muscular atrophy; Kennedy disease)	3.35 down	0.02551
H83451	2014	EST	3.35 down	0.00498
W90560	3644	EST	3.35 down	0.00388
AA456326	1191	EST	3.35 down	0.00489
Z38192	3882	EST	3.35 down	0.00184
AA284721	677	EST	3.34 down	0.03296
D59344	1695	EST	3.34 down	0.01337
N47469	2521	EST	3.34 down	0.00329
N22854	2451	CASP2 and RIPK1 domain containing adaptor with death domain	3.34 down	0.0084
N54399	2585	EST	3.34 down	0.00046
U82468	3441	lubby like protein 1	3.34 down	0.0097
AA460047	1226	EST	3.33 down	0.04011
AA001604	4	EST	3.33 down	0.0215
AA121140	235	EST	3.33 down	0.00058
HG3743-HT2846		caldesmon 1	3.33 down	0.00135
N51737	2546	mitogen-activated protein Kinase Kinase 12	3.32 down	0.00376
AA430026	1007	EST	3.31 down	0.00786
H06166	1854	EST	3.31 down	0.03778
AA062744	147	EST	3.31 down	0.01909
W81079	3608	EST	3.31 down	0.0167
AA227480	456	pim-2 oncogene	3.31 down	0.02413
AA463876	1252	EST	3.31 down	0.00109
H09167	1860	KIAA0195 gene product	3.31 down	0.00313
H98822	2070	EST	3.31 down	0.00174
R92458	2985	hemoglobin, gamma G	3.31 down	0.00763
AA453917	1159	EST	3.3 down	0.01896
M61854	2370	cytochrome P450, subfamily 11C (mephenytoin 4-hydroxylase)	3.3 down	0.04185
AA281796	650	mannose-P-dolichol utilization defect 1	3.3 down	0.04108
F09353	1802	solute carrier family 5 (inositol transporters), member 3	3.3 down	0.02841

Table 6B. (page 55) Down in Metastatics vs Normal Sample Set 2

N27563	2472	EST		3.3 down	0.00021
R01081	2752	EST		3.3 down	0.00839
H25836	1905	tumor necrosis factor (ligand) superfamily, member 10		3.3 down	0.03125
AA452549	1146	platelet-derived growth factor receptor, alpha polypeptide		3.3 down	0.04155
U28833	3340	Down syndrome candidate region 1		3.3 down	0.00306
T23680	3083	calcium channel, voltage-dependent, gamma subunit 3		3.29 down	0.0003
AA429038	995	EST		3.29 down	0.00927
AA490882	1381	EST		3.29 down	0.00319
AA460128	1227	similar to S. pombe dim1+		3.28 down	0.01299
AA496053	1396	EST		3.28 down	0.00095
T32564	3140	EST		3.28 down	0.01506
T55547	3147	EST		3.28 down	0.00047
Z38777	3892	nuclear receptor binding factor-2		3.28 down	0.0022
AA235507	498	golgi autoantigen, golgin subfamily a 5		3.28 down	0.00249
X63416	3808	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)		3.28 down	0.00221
H04242	1837	RAB5B, member RAS oncogene family		3.27 down	0.04826
N52322	2552	EST		3.27 down	0.00933
H63251	1972	KIAA0606 protein; SCN Circadian Oscillatory Protein (SCOP)		3.27 down	0.02455
AA281930	651	core-binding factor, runt domain, alpha subunit 2; translocated to, 3		3.27 down	0.02329
X02160	3668	insulin receptor		3.27 down	0.0007
C15871	1575	EST		3.26 down	0.00046
AA447617	1103	EST		3.26 down	0.04887
AA464603	1280	EST		3.26 down	0.0007
Z39818	3909	EST		3.26 down	0.00089
Z84718	3949	EST		3.26 down	0.02252
AA598675	1433	EST		3.25 down	0.03934
N93191	2729	EST		3.25 down	0.00232
H09959	1869	choline kinase		3.25 down	0.00225
H79820	2004	EST		3.25 down	0.01466
AA070090	152	EST		3.24 down	0.00804
AA406435	877	EST		3.24 down	0.00941

Table 6B. (page 56) Down in Metastatics vs Normal Sample Set 2

W60186	3554	EST	3.24 down	0.00228
H67094	1979	EST	3.24 down	0.00075
R30234	2834	EST	0.0412	
T54160	3144	EST	3.24 down	0.00168
T72629	3208	EST	3.24 down	0.00556
W87480	3630	EST	3.24 down	0.01063
		STAT induced STAT inhibitor-2		
		branched chain keto acid dehydrogenase E1, alpha polypeptide		
Z14093	3862	(maple syrup urine disease)	3.24 down	0.00301
		cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuraminase)		
N54792	2570	EST	3.23 down	0.00099
AA076238	168	EST	3.23 down	0.00395
AA086698	188	EST	3.23 down	0.02543
AA281591	646	EST	3.23 down	0.00895
N67096	2622	EST	3.23 down	0.00446
U51903	3386	EST	3.23 down	0.00242
AA436880	1058	EST	3.22 down	0.00699
H26417	1906	EST	3.22 down	0.03672
N53352	2557	EST	3.22 down	0.00416
AA447740	1106	EST	3.22 down	0.02518
HG33510-HT3704		nuclear receptor subfamily 2, group F, member 1	3.22 down	0.0034
HG33431-HT3616		decorin	3.22 down	0.01941
AA443993	1086	EST	3.22 down	0.02948
T65972	3176	EST	3.21 down	0.04847
S52028	3018	cystathionase (cystathionine gamma-lyase)	3.21 down	0.00476
		cytochrome P450, subfamily 11A (phenobarbital-inducible), polypeptide 6		
M33318	2339	regulator of G-protein signalling 5	3.21 down	0.01621
AA348466	756	EST	3.2 down	0.00571
AA459293	1213	EST	3.2 down	0.0001
H27330	1909	EST	3.2 down	0.00067
AA046457	111	EST	3.2 down	0.00513
AA234916	492	EST	3.2 down	0.00799
R10662	2766	mult. (E. coli) homolog 1 (colon cancer, nonpolypoid type 2)	3.2 down	0.0005
H46990	1933	cytochrome P450, subfamily 11E (ethanol-inducible)	3.2 down	0.00095

Table 6B (page 57) Down in Metastatics vs Normal Sample Set 2

U01824	3275	solute carrier family 1 (glial high affinity glutamate transporter), member 2	3.2 down	0.00021
X61123	3750	B-cell translocation gene 1, anti-proliferative	3.2 down	0.00796
H10482	1870	EST	3.19 down	0.01611
U82108	3440	solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 2	3.19 down	0.01545
AA084688	180	ubiquitin-like 3	3.19 down	0.0419
H12257	1879	EST	3.19 down	0.00669
N74558	2686	EST	3.19 down	0.00247
R69031	2940	EST	3.19 down	0.00798
AA191488	398	solute carrier family 31 (copper transporters), member 1	3.19 down	0.00013
U67963	3409	lysophospholipase-like	3.19 down	0.00029
M24283	2303	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	3.19 down	0.04985
AA157520	347	EST	3.18 down	0.00516
AA418098	920	cAMP responsive element binding protein-like 2	3.18 down	0.03824
AA005202	12	retinol-binding protein 4, interstitial	3.18 down	0.00106
AA227901	459	SEC24 (S. cerevisiae) related gene family, member B	3.18 down	0.00397
H40534	1923	EST	3.18 down	0.01381
AA236942	519	EST	3.18 down	0
D16481	1621	hydroxacyl-Coenzyme A dehydrogenase/3-keibacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit	3.18 down	0.00695
D31225	1641	EST	3.17 down	0.01073
H95358	2049	EST	3.17 down	0.00182
H89893	2025	EST	3.17 down	0.00658
N48602	2528	EST	3.17 down	0.02913
T86464	3236	EST	3.17 down	0.00498
AA125856	242	EST	3.17 down	0.01545
H93562	2038	proline synthetase co-transcribed (bacterial homolog)	3.17 down	0.00113
Y10659	3856	interleukin 13 receptor, alpha 1	3.17 down	0.00095
X67235	3770	hematopoietically expressed homeobox	3.17 down	0.0045
AA004231	7	EST	3.16 down	0.03067

Table 6B. (page 58) Down in Metastatics vs Normal Sample Set 2

F04335	1787	EST	3.16 down	0.0058
T10822	3054	EST	3.16 down	0.00635
T79842	3224	EST	3.16 down	0.03159
AA180356	382	EST	3.16 down	0.00917
AA207123	430	immunoglobulin superfamily, member 3	3.16 down	0.00328
AA397914	783	EST	3.16 down	0.00336
AA599554	1459	cell cycle progression 8 protein	3.16 down	0.00021
H06063	1852	chondroitin sulfate proteoglycan 3 (neurocan)	3.15 down	0.00599
W61000	3657	EST	3.15 down	0.03143
J02888	2089	NAD(P)H menadiene oxidoreductase 2, dioxin-inducible	3.15 down	0.02385
U62389	3401	isocitrate dehydrogenase 1 (NADP+), soluble	3.15 down	0.03949
X04729	3679	plasminogen activator inhibitor, type I	3.15 down	0.01337
N45998	2519	EST	3.14 down	0.00337
R54416	2900	EST	3.14 down	0.00236
AA446651	1093	EST	3.14 down	0.01902
AA608671	1466	EST	3.14 down	0.04543
W51951	3539	dCMP deaminase	3.14 down	0.01691
AA101055	213	leptin receptor	3.14 down	0.0071
J04615	2112	SNRPN upstream reading frame	3.14 down	0.02928
M20902	2292	apolipoprotein C-I	3.14 down	0.0389
		solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1	3.14 down	0.04095
L77567	2229	ubiquitin 2	3.13 down	0.00023
AA487161	1353	EST	3.13 down	0.04948
H19504	1895	EST	3.13 down	0.00216
N27524	2471	EST	3.13 down	0.01481
N31952	2489	EST	3.13 down	0.01955
N25193	2463	EST	3.13 down	0.002
N53688	2602	EST	3.13 down	0.04148
N99866	2747	EST	3.13 down	0.00561
AA452915	1152	EST	3.13 down	0.0338
AA477119	1289	thioredoxin peroxidase (antioxidant enzyme)	3.13 down	0.02543
U25182	3332	Phosphatidic acid phosphatase type 2b	3.13 down	0.00129
U79294	3434			

Table 6B (page 59) Down in Metastatics vs Normal Sample Set 2

X17025	3712	isopentenyl-diphosphate delta isomerase	3.13 down	0.0043
L39490	2207	ADP-ribosylation factor 4-like	3.13 down	0.01306
AA402095	835	EST	0.01412	0.00876
AA479132	1309	EST	3.12 down	0.00319
R67751	2938	EST	3.12 down	0.02382
AA490214	1376	EST	3.12 down	0.00231
H09594	1868	EST	3.12 down	0.00293
H59141	1963	EST	3.12 down	0.00949
T23430	3079	EST	0.01122	0.01122
T82259	3229	EST	3.12 down	0.03617
Z38435	3887	ribosomal protein L21	3.12 down	0.01897
AA074891	162	EST	3.12 down	0.01087
AA476346	1283	EST	3.12 down	0.01248
H05072	1843	EST	3.12 down	0
AA405907	867	EST	3.12 down	0.00861
N79435	2700	chromosome 15 open reading frame 3	3.12 down	0.02663
R44761	2857	aryl hydrocarbon receptor nuclear translocator	3.12 down	0.00101
D13814	1611	angiotensin receptor 1, angiotensin receptor 1B	3.12 down	0.001
X95876	3833	G protein-coupled receptor 9	3.11 down	0.00747
AA238180	726	EST	0.029	0.008
W35309	3499	EST	3.11 down	0.03339
AA243595	530	EST	3.11 down	0.01634
AA280791	640	eukaryotic translation initiation factor 5	3.11 down	0.01929
T68426	3185	CD81 antigen (target of antiproliferative antibody 1)	3.11 down	0.03
AA401343	828	EST	3.11 down	0.00064
AA454170	1163	EST	3.1 down	0.00528
M30257	2322	vascular cell adhesion molecule 1	3.1 down	0.03905
H67840	1980	EST	3.1 down	0.00266
AA455962	1182	EST	3.1 down	0.00745
AA609576	1486	EST	3.1 down	0.03807
H06144	1853	EST	3.1 down	0.00203
H47391	1935	EST	3.1 down	
N31598	2487	EST	3.1 down	

Table 6B. (page 60) Down in Metastatics vs Normal Sample Set 2

N95585	2742	EST		3.1 down	0.0083
AA457377	1201	EST		3.1 down	0.00549
HG3996-HT4288		glycerol-3-phosphate dehydrogenase 1 (soluble)		3.1 down	0.00523
AA247453	533	EST		3.09 down	0.0015
AA284558	674	Nck, Ash and phospholipase C binding protein		3.09 down	0.00027
U06863	3287	folistatin-like 1		3.09 down	0.00091
AA282179	655	EST		3.09 down	0.01693
AA621430	1525	doublecortin; lissencephaly, X-linked (doublecortin)		3.09 down	0.00024
H62838	1971	EST		3.09 down	0.03201
W67199	3566	EST		3.09 down	0.01528
AA400246	810	mitogen-activated protein kinase-activated protein kinase 2		3.09 down	0.00476
AA412034	894	EST		3.09 down	0.02309
AA443934	1083	GTP-binding protein Rho7		3.09 down	0.00214
AA456887	1197	EST		3.08 down	0.01189
R80573	2972	EST		3.08 down	0.02126
R82229	2974	phosphatidylserine decarboxylase		3.08 down	0.03455
		CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2 (lysosomal integral membrane protein II)		3.08 down	0.00091
W52581	3540	EST		3.08 down	0.02602
N90584	2713	EST		3.08 down	0.00706
AA126059	246	EST		3.08 down	0.00415
AA485326	1342	ATP-binding cassette, sub-family D (ALD), member 4		3.08 down	0.00006
N21550	2443	EST		3.08 down	0.00012
AA412184	898	EST		3.08 down	0.01592
AA416740	907	EST		3.08 down	0.01249
U73682	3419	meningioma expressed antigen 6 (coiled-coil proline-rich)		3.08 down	0.01811
M16750	2273	pim-1 oncogene		3.08 down	0.00877
Z26491	3870	catechol-O-methyltransferase		3.07 down	0.0002
D58231	1692	ubiquitin-like 3		3.07 down	0.01417
T94862	3257	EST		3.07 down	0.00186
N34441	2495	EST		3.07 down	0.01007
T16175	3063	protein tyrosine phosphatase, non-receptor type substrate 1		3.06 down	0.03349
H99119	1919	EST		3.06 down	0.02464
R56802	2906	lg superfamily protein			

Table 6B (page 61) Down in Metastatics vs Normal Sample Set 2

T49061	3134	EST		3.06 down	0.00768
N68993	2640	EST		3.06 down	0.00867
U36922	3351	EST		0.01388	0.01388
U69141	3413	glutaryl-Coenzyme A dehydrogenase		3.06 down	0.00053
AA253455	565	EST		3.05 down	0.00533
AA338512	742	EST		3.05 down	0.03427
AA487606	1358	EST		3.05 down	0.00291
R02752	2757	EST		3.05 down	0.00362
M12529	2244	apolipoprotein E		3.05 down	0.03776
T30341	3100	EST		3.04 down	0.04567
AA047187	117	EST		3.04 down	0.04306
R07637	2777	EST		3.04 down	0.00118
R51256	2888	EST		3.04 down	0.00286
W42483	3507	EST		0.02518	0.02518
X87344	3814	EST		3.04 down	0.02779
AA040270	93	EST		3.03 down	0.01367
R05490	2760	SEC24 (S. cerevisiae) related gene family, member B		3.03 down	0.00317
N93246	2730	EST		3.03 down	0.00049
L20965	2175	phosphodiesterase 4A, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E2)		3.02 down	0.01177
H57850	1958	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform		3.02 down	0.00123
W61319	3558	EST		3.02 down	0.00031
AA599526	1453	cartilage associated protein		3.02 down	0.00043
AA609572	1484	EST		3.02 down	0.01534
AA490890	1382	EST		3.02 down	0.00007
X76105	3791	death-associated protein		3.02 down	0.00944
M82843	2420	zinc finger protein homologous to Zfp-36 in mouse		3.02 down	0.04958
C01686	1557	EST		3.01 down	0.00048
T92950	3255	EST		3.01 down	0.00497
AA349836	760	EST		3.01 down	0.00911
AA401151	827	lysozyme (renal amyloidosis)		0.0051	0.0051
AA459256	1212	lectin, mannose-binding, 1		3.01 down	0.00094

Table 6B. (page 62) Down in Metastatics vs Normal Sample Set 2

AA215595	442	nudix (nucleoside diphosphate linked moiety X)-type motif 3	3 down	0.03027	
AA292711	711	EST	3 down	0.01053	
AA410181	881	EST	3 down	0.00268	
W70313	3575	EST	3 down	0.00643	

Table 7A (page 1) Up in HCC vs Normal Sample Set 2

Fragment Name	SEQ ID:	Known Gene Name	Fold Change	Direction	Pvalue
N33820	2492	diubiquitin	50.29	up	0
Y00705	3847	serine protease inhibitor, Kazal type 1	28.88	up	0.00003
AA338908	801	EST	20.72	up	0.00114
AA09404	208	EST	20.22	up	0
AA610116	1459	telraspan NET-6 protein	16.35	up	0.00249
N26904	2468	EST	15.38	up	0.00077
R91819	2983	EST	12.81	up	0.00037
AA505133	1417	solute carrier family 2 (facilitated glucose transporter), member 3	12.21	up	0.00169
AA405791	864	EST	11.79	up	0.00587
N59536	2585	EST	11.68	up	0.00484
AA055896	135	collagen, type V, alpha 1	10.87	up	0.00907
H98879	2084	EST	10.81	up	0.001
L47125	2218	glypican 3	10.69	up	0.04128
AA430032	1009	pituitary tumor-transforming 1	10.67	up	0.00052
Z37987	3879	glypican 3	10.66	up	0.02304
J03464	2094	collagen, type I, alpha 2	10.37	up	0.00879
W45320	3520	KRAB-associated protein 1	10.05	up	0.00002
M94250	2425	midline (neurite growth-promoting factor 2)	9.86	up	0.02104
AA428172	986	Notch (Drosophila) homolog 3	9.63	up	0.00195
AA620881	1510	trinucleotide repeat containing 3	9.49	up	0.00062
AA142857	307	EST	9.48	up	0.00376
D51276	1678	leukemia-associated phosphoprotein p18 (slathmin)	9.42	up	0.00015
AA136187	339	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1	9.38	up	0.02007
D31094	1639	G8 protein	9.37	up	0.0048
AA148977	322	EST	9.3	up	0.00002
F08876	1797	EST	9.06	up	0
AA232837	465	EST	8.85	up	0.0048
AA429472	997	DKFZP434P106 protein	8.78	up	0.00063
T24068	3087	EST	8.65	up	0.00118
AA149889	326	neighbor of A-kinase anchoring protein 95	8.55	up	0.00224
AA388926	802	EST	8.25	up	0.00066
C01766	1559	EST	8.18	up	0.00505
N36432	2506	erythrocyte membrane protein band 4.1-like 2	7.95	up	0.00687

Table 7A (page 2) Up in HCC vs Normal Sample Set 2

AA452724	1149	programmed cell death 5	7.7	up	0.00085
AA401965	833	tumor suppressor deleted in oral cancer-related 1	7.58	up	0.00089
AA620553	1504	flap structure-specific endonuclease 1	7.56	up	0.00101
AA024658	47	ribosomal protein S19	7.55	up	0.00592
AA136269	298	EST	7.5	up	0.00014
H78211	2001	EST	7.5	up	0.02674
AA393139	775	geminin	7.44	up	0.00888
AA251792	546	fatty-acid-Coenzyme A ligase, long-chain 4	7.44	up	0.00285
AA417030	914	EST	7.35	up	0.00555
AA394258	779	RD RNA-binding protein	7.27	up	0.00054
AA292765	712	ZW10 interactor	7.24	up	0.00498
T16226	3065	EST	7.23	up	0.00119
H08863	1859	hypothetical protein	7.18	up	0.02102
M12125	2241	tropomyosin 2 (beta)	7.13	up	0.0004
R96924	3000	EST	7.04	up	0.00012
AA243133	525	serine/threonine kinase 15	7.03	up	0.00005
R06886	2775	peptidylprolyl isomerase B (cyclophilin B)	7.03	up	0.00628
N93269	2731	nuclear receptor co-repressor 1	6.99	up	0.0371
Z39682	3908	KIAA0954 protein	6.96	up	0.01966
D26129	1635	ribonuclease, RNase A family, 1 (pancreatic)	6.9	up	0.00008
AA290734	639	KIAA0618 gene product	6.83	up	0.001
T58607	3154	EST	6.83	up	0.03711
H97013	2059	ephA4	6.8	up	0.00023
AA283182	668	EST	6.78	up	0.01784
M57710	2357	lectin, galactoside-binding, soluble, 3 (galectin 3)	6.76	up	0.00103
AA434418	1036	KIAA1115 protein	6.75	up	0.00032
AA283032	614	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1	6.73	up	0.04478
A173755	374	EST	6.73	up	0.00666
AA421951	936	EST	6.69	up	0.00013
W31906	3496	secretogagin	6.69	up	0.00926
AA148885	320	minichromosome maintenance deficient (S. cerevisiae) 4	6.59	up	0.00112
AA159025	353	EST	6.58	up	0.01946
R44617	2856	MyoD family inhibitor	6.54	up	0.02505
W94885	3657	EST	6.53	up	0
L29218	2190	CDC-like kinase 2	6.51	up	0.00019
H99473	2077	regulator of nonsense transcripts 1	6.51	up	0.00025

Accession	Protein	Up in HCC	Normal Sample Set 2
AA258421	hypothetical protein	595	6.5
AA454830	DKFZP586M2123 protein	1170	6.48
R45994	EST	2866	6.48
AA335191	creline kinase, brain	741	6.47
T95057	EST	3258	6.46
AA011209	melanoma-associated antigen recognised by T lymphocytes	30	6.45
N73808	EST	2678	6.44
N62126	EST	2588	6.42
AA454908	KIAA0144 gene product	1171	6.39
W80852	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	3806	6.37
AA043111	EST	97	6.36
AA446242	replication factor C (activator 1) 4 (37kD)	1087	6.3
F04320	occludin	1786	6.29
H94471	EST	2042	6.26
AA284945	EST	680	6.25
J00231	immunoglobulin heavy constant gamma 3 (G3m marker)	2087	6.23
AA258131	putative GTP-binding protein similar to RA/IRAB1C	587	6.22
AA291139	EST	695	6.18
AA459254	EST	1211	6.15
H10933	EST	1873	6.11
R48594	EST	2874	6.09
AA204927	tropomyosin 1 (alpha)	425	6.06
AA405098	partner of RAC1 (arfaplin 2)	855	6.06
T47032	SRY (sex determining region Y)-box 13	3123	6.05
W81654	melanoma adhesion molecule	3613	6.04
R79246	cytoskeleton-associated protein 1	2949	5.95
R70801	collagen, type IV, alpha 2	1696	5.95
D59355	golgin-67	3652	5.95
X05610	collagen, type I, alpha 2	1773	5.89
F01831	EST	1697	5.88
D59553	phospholipase C, beta 3, neighbor pseudogene	3947	5.88
Z74616	vacuolar protein sorting 45B (yeast homolog)	385	5.88
AA181705	EST	1558	5.88
C01721	EST	3071	5.88
T16550	EST	657	5.88
AA282247	EST	657	5.88

Table 7A (page 4) Up in HCC vs Normal Sample Set 2

N54841	2571	EST		5.87	up	0.02752
M31303	2327	leukemia-associated phosphoprotein p18 (statthmin)		5.86	up	0.00071
H05004	1844	EST		5.85	up	0.0059
H27188	1908	collagen-binding protein 2 (colligen 2)		5.84	up	0.01826
AA496981	1404	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3		5.82	up	0.00521
H59617	1964	EST		5.81	up	0.0115
W42957	3513	calmodulin 2 (phosphorylase kinase, delta)		5.79	up	0.03669
AA282343	658	purine-rich element binding protein B		5.78	up	0.00128
AA455239	1174	chromosome-associated polypeptide C		5.78	up	0.00003
AA234096	479	EST		5.75	up	0.01169
U45286	3363	T-cell, immune regulator 1		5.75	up	0.00006
AA504512	1415	KIAA0943 protein		5.72	up	0.00384
AA443602	1078	EST		5.71	up	0.00736
AA092129	194	EST		5.67	up	0.00011
F02807	1781	KIAA0838 protein		5.67	up	0.02064
N80703	2703	EST		5.65	up	0.0001
AA235448	497	EST		5.62	up	0.00077
AA449073	1117	EST		5.61	up	0.01214
T47325	3124	EST		5.6	up	0.02923
AA135153	291	EST		5.58	up	0.00327
D00596	1590	thymidylate synthetase		5.58	up	0.0098
N72116	2667	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2		5.57	up	0.00709
T03580	3045	pyruvate kinase, muscle		5.57	up	0.01344
R07172	2776	EST		5.54	up	0.01322
W78057	3597	EST		5.53	up	0.01231
R72886	2955	KIAA0422 protein		5.5	up	0.00091
AA458878	1204	EST		5.49	up	0.00977
D55716	1686	minichromosome maintenance deficient (S. cerevisiae) 7		5.48	up	0.00003
W26716	3481	non-histone chromosome protein 2 (S. cerevisiae)-like 1		5.47	up	0.00146
AA134052	285	Rab geranylgeranyltransferase, alpha subunit		5.47	up	0.00982
Z74615	3946	collagen, type I, alpha 1		5.47	up	0.00283
883		EST		5.45	up	0.00068
AA410469	2858	cysteine-rich protein 2		5.4	up	0.00329
R44793	283	EST		5.35	up	0.00433
AA133666	283	EST		5.34	up	0.00027
W02041	3465	EST				

Table 7A (page 5) Up in HCC vs Normal Sample Set 2
r 4 (survivin)

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Table 7A (page 6) Up in HCC vs Normal Sample Set 2

R49476	2882	EST		4.93	0.00763	up
AA291168	696	EST		4.93	0.01633	up
AA410862	887	peroxisome proliferative activated receptor, delta		4.91	0.0044	up
N83798	2737	protein tyrosine phosphatase type IVA, member 3		4.91	0.00245	up
W85875	3617	EST		4.91	0.01198	up
AA089997	189	EST		4.9	0.0241	up
AA482319	1335	putative type II membrane protein		4.9	0.00028	up
AA037433	86	EST		4.9	0.0194	up
W79773	3602	EST		4.89	0.00034	up
AA188378	392	EST		4.88	0.01653	up
AA252060	550	EST		4.88	0.00169	up
F01538	1771	RAP1, GTPase activating protein 1		4.88	0.00292	up
R06251	2763	tumor protein D52-like 2		4.88	0.03097	up
T90190	3246	H1 histone family, member 2		4.87	0.00555	up
AA281599	647	EST		4.87	0.00248	up
T88814	3241	EST		4.84	0.00001	up
W92608	3650	BAI1-associated protein 3		4.84	0.00599	up
AA477549	1291	T-cell, immune regulator 1		4.84	0.0096	up
W73038	3585	EST		4.83	0.00902	up
S78187	3035	cell division cycle 25B		4.83	0.00547	up
N54067	2561	mitogen-activated protein kinase kinase kinase 4		4.82	0.00229	up
W60097	3553	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide, Y chromosome		4.82	0.04903	up
AA215299	439	U6 snRNA-associated Sm-like protein LSM7		4.81	0.00119	up
AA497018	1406	adenylate cyclase 1 (brain)		4.81	0.00352	up
AA115735	230	EST		4.8	0.02671	up
C14051	1565	phosphoprotein enriched in astrocytes 15		4.79	0.00548	up
H09271	1862	EST		4.78	0.00072	up
AA482104	1332	non-melastatic cells 3, protein expressed in		4.78	0.00135	up
AA283832	672	EST		4.77	0.00156	up
AA464963	1265	EST		4.77	0.00086	up
R48447	2870	EST		4.77	0.00533	up
AA251299	541	KIAA0014 gene product		4.76	0.0252	up
H64493	1973	immunoglobulin heavy constant gamma 3 (G3m marker)		4.74	0.00751	up
M60784	2366	small nuclear ribonucleoprotein polypeptide A		4.74	0.00001	up
AA146849	313	target of myb1 (chicken) homolog		4.74	0.00326	up
AA179787	380	polyglutamine binding protein 1		4.72	0.00725	up

Table 7A (page 8) Up in HCC vs Normal Sample Set 2

L17131	2168	high-mobility group (nonhistone chromosomal) protein isoforms I and Y	4.45	up	0.03141
AA001504	2	EST	4.44	up	0.03077
AA215379	440	EST	4.44	up	0.01675
H99587	2079	EST	4.44	up	0.00532
AA467218	1355	EST	4.43	up	0.03198
N75541	2691	EST	4.43	up	0.01059
N73665	2680	EST	4.43	up	0.00177
cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)					
L25876	2182	phosphatase	4.43	up	0.00082
AB0002373	1538	KIAA0375 gene product	4.41	up	0.00795
H57709	1956	ribosomal protein L31	4.41	up	0.00091
F13809	1828	tropomyosin 1 (alpha)	4.4	up	0.01221
T79477	3222	death-associated protein 6	4.4	up	0.00074
AA156460	343	EST	4.39	up	0.01223
AA117160	367	EST	4.39	up	0.04582
AA423827	941	chromosome 22 open reading frame 3	4.39	up	0.00345
W28362	3487	KIAA0974 protein	4.38	up	0.00322
W63302	3570	EST	4.37	up	0.00165
A4236872	515	EST	4.37	up	0.00385
AA043959	101	tropomyosin 4	4.37	up	0.01641
AA070827	157	EST	4.37	up	0.02617
W42627	3508	EST	4.37	up	0.00021
D82226	1742	proteasome (prosome, macropain) 26S subunit, ATPase, 4	4.35	up	0.00184
L33930	2198	CD24 antigen (small cell lung carcinoma cluster 4 antigen)	4.35	up	0.03968
A4218663	444	acid-inducible phosphoprotein	4.34	up	0.00161
D59570	1699	EST	4.34	up	0.00487
D60811	1704	EST	4.34	up	0.00217
H70739	1991	EST	4.34	up	0.00106
H97677	2062	EST	4.34	up	0.00753
R92449	2984	KIAA0323 protein	4.34	up	0.00104
R61374	2920	EST	4.34	up	0.01489
N68241	2633	EST	4.33	up	0.00532
AA430048	1012	KIAA0160 protein	4.32	up	0.00279
AA235289	495	RAP2A, member of RAS oncogene family	4.31	up	0.00135
N91773	2718	lysyl oxidase	4.31	up	0.00302
AA429539	998	EST	4.3	up	0.01035

Table 7A (page 9) Up in HCC vs Normal Sample Set 2

AA399251	804	EST		4.3	up	0.01578
AA461063	1235	EST		4.3	up	0.00074
W85214	3622	EST		4.3	up	0.00194
M19267	2286	tropomyosin 1 (alpha)		4.3	up	0.00893
AA416973	913	EST		4.29	up	0.00155
T16206	3064	EST		4.29	up	0.00868
AA252627	556	chaperonin containing TCP1, subunit 6A (zeta 1), homeo box B5		4.28	up	0.00363
W60486	3555	EST		4.27	up	0.0046
AA478017	1295	zyxin		4.25	up	0.01223
M37583	2349	H2A histone family, member Z		4.25	up	0.00135
T55196	3148	EST		4.24	up	0.00046
AA454597	1166	EST		4.23	up	0.00917
T03749	3047	KIAA1089 protein		4.23	up	0.00776
AA256888	584	EST		4.23	up	0.03094
T16983	3073	cleavage and polyadenylation specific factor 4, 30KD subunit		4.23	up	0.0106
AA398205	789	EST		4.22	up	0.00059
AA488432	1361	phosphoserine phosphatase		4.2	up	0.00128
R05316	2759	EST		4.2	up	0.00011
AA136547	302	EST		4.19	up	0.00098
AA112679	224	EST		4.19	up	0.00572
R39390	2836	EST		4.18	up	0.0004
D83783	1748	trinucleotide repeat containing 11 (THR-associated protein, 230 kDa subunit)		4.16	up	0.00055
AA291786	704	FE65-LIKE 2		4.15	up	0.00362
AA291659	702	collagen, type I, alpha 2		4.15	up	0.00019
H88674	2021	EST		4.15	up	0.02864
AA488892	1364	EST		4.14	up	0.04766
F01568	1772	EST		4.13	up	0.00084
F04444	1788	EST		4.13	up	0.00944
N70481	2657	EST		4.13	up	0.0067
AA102837	221	EST		4.12	up	0.00255
AA365742	765	teiraspas NET-6 protein		4.12	up	0.03719
R71395	2951	EST		4.12	up	0.00779
AA447574	1102	EST		4.11	up	0.01123
AA400184	809	KIAA0907 protein		4.11	up	0.0365
AA211483	435	EST		4.11	up	0.02264
AA037058	84	laminin, gamma 1 (formerly LAMB2)		4.11	up	

Table 7A (page 10) Up in HCC vs Normal Sample Set 2

W44557	3515	chromosome 1 open reading frame 2	4.1	up	0.00433
T62521	3167	EST	4.1	up	0.00392
D38073	1651	minichromosome maintenance deficient (S. cerevisiae) 3	4.1	up	0.01195
N92948	2725	nuclear phosphoprotein similar to S. cerevisiae PWP1	4.09	up	0.0019
AA464414	1258	EST	4.08	up	0.02299
AA142858	308	EST	4.07	up	0.0022
AA610089	1498	U4/U6-associated RNA splicing factor	4.07	up	0.00361
Z39200	3899	EST	4.07	up	0.00075
AA443802	1081	EST	4.07	up	0.01546
AA453783	1158	EST	4.07	up	0.00786
AA053680	130	high-mobility group protein 2-like 1	4.07	up	0.03144
L03411	2134	RD RNA-binding protein	4.06	up	0.00467
AA405505	860	RNA helicase family	4.05	up	0.00747
AA293420	717	EST	4.05	up	0.01189
AA400643	817	GAS2-related on chromosome 22	4.04	up	0.03751
AA609008	1475	EST	4.04	up	0.00002
N56935	2574	EST	4.04	up	0.00797
AA446581	1090	DKFZP564P0462 protein	4.04	up	0.00479
H52937	1944	roundabout (axon guidance receptor, Drosophila) homolog 1	4.02	up	0.00163
D42040	1657	female sterile homeotic-related gene 1 (mouse homolog)	4.02	up	0.00389
W04550	3469	EST	4.01	up	0.00349
AA400665	1230	EST	4.01	up	0.01866
AA463254	1247	histone deacetylase 3	4.01	up	0.01856
U85625	3447	ribonuclease 6 precursor	4	up	0.01664
T77733	3218	tubulin, gamma 1	3.99	up	0.00526
AA464043	1255	EST	3.99	up	0.00056
N69390	2649	EST	3.99	up	0.00016
X54941	3729	CDC28 protein kinase 1	3.99	up	0.00016
H02259-HT2348		tubulin, alpha 1 (testis specific), tubulin, alpha, ubiquitous	3.98	up	0.00945
AA425852	958	EST	3.97	up	0.02796
D94557	1749	minichromosome maintenance deficient (mis5, S. pombe) 6	3.97	up	0.0017
AA338760	744	EST	3.96	up	0.01307
R45569	2863	DKFZP547E1010 protein	3.96	up	0.00259
X17567	3716	small nuclear ribonucleoprotein polypeptides B and B1	3.96	up	0.00317
M68864	2389	ORF	3.95	up	0.00144
X53331	3724	matrix Gla protein	3.95	up	0.0151

Table 7A (page 11) Up in HCC vs Normal Sample Set 2

AA258614	599	EST		3.94	up	0.0048
T65957	3175	ribosomal protein S3A		3.94	up	0.04187
AA435665	1040	EST		3.94	up	0.00274
M32977	2336	vascular endothelial growth factor		3.93	up	0.04917
F10199	1813	EST		3.93	up	0.03209
AA256605	581	EST		3.92	up	0.03087
R61557	2921	KIAA0100 gene product		3.9	up	0.00292
T33859	3108	KIAA0365 gene product		3.9	up	0.0019
U18018	3316	eis variant gene 4 (E1A enhancer-binding protein, E1AF)		3.9	up	0.0403
T78922	3221	stem cell growth factor; lymphocyte secreted C-type lectin		3.89	up	0.00604
D63478	1711	KIAA0144 gene product		3.89	up	0.00253
AA320369	735	chromosome 19 open reading frame 3		3.88	up	0.00452
AA598405	1424	membrane interacting protein of RGS16		3.87	up	0.00949
AA127444	252	EST		3.87	up	0.01751
AA465000	1266	EST		3.86	up	0.00431
D80420	1732	ubiquinol-cytochrome c reductase hinge protein		3.86	up	0.00412
T10698	3053	EST		3.86	up	0.00195
X74801	3788	chaperonin containing TCP1, subunit 3 (gamma)		3.86	up	0.00453
AA451680	1136	hepatocellular carcinoma associated protein; breast cancer associated gene 1		3.85	up	0.0018
L76191	2222	interleukin-1 receptor-associated kinase 1		3.85	up	0.00152
N68018	2630	TBP-associated factor 172		3.84	up	0.00277
AA132032	271	trinucleotide repeat containing 1		3.84	up	0.01136
N67815	2626	EST		3.84	up	0.00439
D14657	1615	KIAA0101 gene product		3.84	up	0.02048
AA478422	1301	unc-51 (C. elegans)-like kinase 1		3.83	up	0.00116
AA485060	1339	EST		3.83	up	0.03172
AA101272	215	EST		3.83	up	0.0386
AA425652	958	EST		3.82	up	0.0395
L29218	2190	GDC-like kinase 2		3.82	up	0.00035
AA465431	1345	EST		3.81	up	0.00441
AA233897	476	EST		3.8	up	0.02145
R26744	2803	midline 1 (Optix/BBB syndrome)		3.8	up	0.00266
AA160775	355	BCL2-antagonist of cell death		3.8	up	0.01145
X54942	3730	CDC28 protein kinase 2		3.8	up	0.0035
T03438	3042	EST		3.79	up	0.02042
AA182001	386	EST		3.78	up	0.04446

Table 7A (page 12) Up in HCC vs Normal Sample Set 2

N70678	2659	TAR (HIV) RNA-binding protein 1	3.78	up	0.02858
L25444	2181	TATA box binding protein (TBP)-associated factor, RNA polymerase II, E, 70/85kD	3.78	up	0.00011
AA086071	184	chromosome-associated polypeptide C	3.77	up	0.01993
AA278768	617	EST	3.77	up	0.03239
Z39379	3900	EST	3.77	up	0.00513
J03040	2091	secreted protein, acidic, cysteine-rich (osteonectin)	3.77	up	0.00564
AA449431	1124	translation initiation factor IF2	3.76	up	0.00571
T26471	3093	EST	3.76	up	0.0165
AA262957	612	EST	3.76	up	0.00157
N47956	2523	eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD)	3.76	up	0.00968
AA478300	1298	CD39-like 2	3.75	up	0.00152
C14756	1570	MLN51 protein	3.75	up	0.0226
N73705	2676	EST	3.75	up	0.01762
AA046103	109	EST	3.75	up	0.02893
AA076138	167	H2A histone family, member Y	3.75	up	0.01442
AA129757	264	EST	3.75	up	0.0166
H98677	2083	exportin, tRNA (nuclear export receptor for tRNAs)	3.75	up	0.00302
AA488074	1360	cell division cycle 42 (GTP-binding protein, 25kD)	3.74	up	0.01887
H00540	1829	EST	3.74	up	0.00234
AA173430	371	EST	3.74	up	0.01159
N29742	2480	EST	3.74	up	0.00104
AA402272	837	EST	3.73	up	0.02336
AA404560	853	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	3.73	up	0.0143
N21648	2446	MpV17 transgene, murine homolog, glomerulosclerosis	3.73	up	0.00071
H56345	1950	EST	3.73	up	0.00853
R16782	2962	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	3.73	up	0.00094
J05614	2122	EST	3.73	up	0.03419
AA461476	1243	EST	3.72	up	0.00744
AA255486	568	EST	3.72	up	0.00154
AA423941	942	EST	3.71	up	0.01481
AA431295	1390	calcium/calmodulin-dependent protein kinase kinase 2, beta	3.71	up	0.0103
Z38299	3884	EST	3.71	up	0.0036
AA600153	1460	DEK oncogene (DNA binding)	3.71	up	0.02967

Table 7A (page 13) Up in HCC vs Normal Sample Set 2

AA609080	1478	EST		3.71	up	0.0306
AA010065	22	CDC28 protein kinase 2		3.71	up	0.00432
D31417	1645	secreted protein of unknown function		3.69	up	0.0004
AA018346	38	EST		3.69	up	0.04582
N68252	2646	ferritin, light polypeptide		3.69	up	0.04116
Z33090	3865	heat shock 27kD protein 1		3.69	up	0.00628
AA402968	844	EST		3.68	up	0.00123
N98464	2743	EST		3.68	up	0.03007
AA165526	360	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1		3.68	up	0.00021
W46286	3523	EST		3.68	up	0.00311
M21259	2293	small nuclear ribonucleoprotein polypeptide E		3.68	up	0.00415
U91930	3459	adaptor-related protein complex 3, delta 1 subunit		3.68	up	0.00009
F09788	1808	collagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II		3.67	up	0.01882
AA291137	694	EST		3.67	up	0.03243
H68794	1984	EST		3.67	up	0.00327
N73762	2677	EST		3.67	up	0.00796
R56095	2905	EST		3.67	up	0.0158
R77451	2963	EST		3.67	up	0.00078
N52168	2550	suppressor of white apricot homolog 2		3.66	up	0.00127
AA456852	1199	Lutheran blood group (Aubergier b antigen included)		3.66	up	0.00614
X83425	3809	EST		3.66	up	0.02661
H47357	1934	EST		3.65	up	0.03799
AA292788	714	EST		3.65	up	0.01765
U51586	3385	slah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-binding protein 1		3.65	up	0.00403
X56494	3735	pyruvate kinase, muscle		3.65	up	0.04795
F10453	1819	EST		3.64	up	0.01878
T23465	3080	EST		3.64	up	0.00285
Z24727	3868	tropomyosin 1 (alpha)		3.64	up	0.00388
X57809	3743	immunoglobulin lambda locus		3.64	up	0.02655
AA040465	95	EST		3.63	up	0.01806
T16652	3072	BCS1 (yeast homolog)-like		3.63	up	0.00434
AA037766	87	EST		3.63	up	0.0328
AAZ27541	457	NS1-binding protein		3.6	up	0.02801
AA313213	732	filiflin 1		3.59	up	0.00878

Table 7A (page 14) Up in HCC vs Normal Sample Set 2

AA251909	549	EST		3.59	up	0.01129
AA487856	1359	KIAA0676 protein		3.59	up	0.01408
M63573	2377	peptidylprolyl isomerase B (cyclophilin B)		3.59	up	0.00916
M94345	2426	capping protein (actin filament), gelsolin-like		3.59	up	0.04508
AF003521	1545	jagged 2		3.58	up	0.00299
AA489091	1368	EST		3.58	up	0.0002
W49791	3538	plasminogen activator, tissue		3.58	up	0.02438
W90146	3641	EST		3.58	up	0.00322
Z39429	3903	EST		3.58	up	0.00416
X06700	3685	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant)		3.58	up	0.02964
W79421	3600	EST		3.57	up	0.00895
X64364	3761	basigin		3.57	up	0.00902
Z21507	3864	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)		3.57	up	0.01898
U62392	3402	zinc finger protein 183		3.56	up	0.0407
AA135871	294	EST		3.56	up	0.01718
W72276	3580	EST		3.56	up	0.0476
D63486	1712	KIAA0152 gene product		3.56	up	0.00063
AA258182	589	EST		3.55	up	0.01198
AA179845	381	EST		3.55	up	0.02484
AA599850	1457	EST		3.55	up	0.03215
D13640	1608	KIAA0015 gene product		3.55	up	0.00347
U66661	3405	gamma-aminobutyric acid (GABA) A receptor, epsilon		3.55	up	0.0045
R73569	2959	EST		3.54	up	0.01962
Z40006	3914	EST		3.54	up	0.00156
AA400896	822	EST		3.54	up	0.00889
N8758	2744	EST		3.54	up	0.02609
M27630	2314	EST		3.54	up	0.00777
U90551	3456	H2A histone family, member L		3.54	up	0.01523
M55998	2356	collagen, type I, alpha 1		3.54	up	0.01449
AA456597	1346	EST		3.53	up	0.03566
H07873	1856	EST		3.53	up	0.0391
R06254	2784	tumor protein D52-like 2		3.53	up	0.04865
R27016	2805	myristoylated alanine-rich protein kinase C substrate (MARCKS, 80K-L)		3.53	up	0.03056
U26727	3336	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)		3.53	up	0.02913

Table 7A (page 15) Up in HCC vs Normal Sample Set 2
polymerase (RNA) II (DNA directed) polypeptide K (7.0KD)

D81608	1740	polymerase (RNA) II (DNA directed) polypeptide K (7.0KD)	3.52	up	0.00437
R22565	2799	EST	3.52	up	0.04352
T17353	3076	EST	3.52	up	0.02085
AA490212	1375	H2A histone family, member Y	3.52	up	0.02202
R68469	2936	pleckstrin and Sec7 domain protein	3.52	up	0.0272
AA484722	1263	DKFZP566C243 protein	3.51	up	0.00101
H97012	2058	EST	3.51	up	0.03505
T23426	3078	EST	3.51	up	0.00674
AA399284	805	EST	3.51	up	0.00327
H99774	2081	EST	3.51	up	0.00009
W54281	3655	Integral membrane protein 2C	3.51	up	0.01689
X54667	3728	cystatin S, cystatin SN	3.51	up	0.00187
AA278817	618	EST	3.5	up	0.01159
AA489707	1371	EST	3.5	up	0.03208
T59668	3159	lysyl oxidase	3.5	up	0.00083
AA598447	1428	exportin, tRNA (nuclear export receptor for tRNAs)	3.5	up	0.01201
H91632	2031	EST	3.5	up	0.03688
N51771	2547	KIA00652 gene product	3.5	up	0.00028
R33498	2819	EST	3.5	up	0.03336
AA621409	1524	putative type II membrane protein	3.5	up	0.00462
L04270	2135	lymphotoxin beta receptor (TNFR superfamily, member 3)	3.5	up	0.01547
AA243173	526	EST	3.49	up	0.0401
AA442763	1072	cyclin B2	3.49	up	0.04176
AA235688	504	nuclear transcription factor Y, beta	3.49	up	0.01897
T26646	3096	X-ray repair complementing defective repair in Chinese hamster cells 1	3.49	up	0.02482
M34309	2342	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3	3.49	up	0.00191
N35913	2502	EST	3.48	up	0.0016
M26576	2310	EST	3.48	up	0.00062
Y08302	3849	dual specificity phosphatase 9	3.47	up	0.00787
Z39191	3898	EST	3.47	up	0.00756
N21407	2442	EST	3.47	up	0.01037
M55210	2353	laminin, gamma 1 (formerly LAMB2)	3.47	up	0.02551
AA236150	507	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1	3.46	up	0.0008
R48473	2871	EST	3.46	up	0.01196
N99844	2748	EST	3.46	up	0.00104

Table 7A (page 16) Up in HCC vs Normal Sample Set 2

AA598648	1432	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	3.46	up	0.00293
C00358	1552	nucleolar protein 3 (apoptosis repressor with CARD domain)	3.45	up	0.00985
AA464251	1257	EST	3.45	up	0.02229
AA598712	1436	EST	3.45	up	0.00005
AA620461	1501	EST	3.45	up	0.01146
R81753	2982	EST	3.45	up	0.02391
Z41349	3928	EST	3.45	up	0.01503
N39237	2510	EST	3.45	up	0.02481
HG40744-H14344		flap structure-specific endonuclease 1	3.45	up	0.01695
U24704	3331	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	3.45	up	0.00037
X87212	3813	cathepsin C	3.45	up	0.02486
AA094752	203	hypothetical 43.2 Kd protein	3.44	up	0.04445
AA471384	1278	divalent cation tolerant protein CUTA	3.44	up	0.01161
AA443271	1073	KIAA0546 protein	3.44	up	0.00324
R62456	2924	EST	3.44	up	0.00285
R70532	2946	EST	3.44	up	0.02186
T51972	3139	EST	3.44	up	0.00406
AA122386	239	collagen, type V, alpha 2	3.44	up	0.02566
AA496715	1400	spectrin SH3 domain binding protein 1	3.44	up	0.00069
H65042	1975	EST	3.44	up	0.00006
AA024776	48	EST	3.44	up	0.00334
X62153	3751	minichromosome maintenance deficient (S. cerevisiae) 3	3.44	up	0.00704
D30946	1638	kinesin family member 3B	3.44	up	0.01458
AA394184	774	DKFZP588B0519 protein	3.43	up	0.01222
AA461282	1237	dihydropyrimidinase-like 2	3.42	up	0.02014
AA471784	919	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	3.42	up	0.02987
W46947	3530	EST	3.42	up	0.04665
AA479139	1310	acid phosphatase 1, soluble	3.42	up	0.01853
AA412301	889	EST	3.42	up	0.0129
AA116036	233	chromosome 20 open reading frame 1	3.41	up	0.00089
AA370163	766	EST	3.41	up	0.00134
AA598831	1440	EST	3.41	up	0.00452
R31807	2812	EST	3.41	up	0.00163
R27296	2806	EST	3.41	up	0.00309
R52161	2892	EST	3.41	up	0.00053

Table 7A (page 17) Up in HCC vs Normal Sample Set 2

X68899	3769	Ewing sarcoma breakpoint region 1	3.41	up	0.03777
AA187579	390	MCT-1 protein	3.4	up	0.02455
AA459542	1218	regulatory factor X-associated ankyrin-containing protein	3.4	up	0.00841
AA227145	454	EST	3.4	up	0.03422
AA408216	871	EST	3.4	up	0.00529
AA443316	1075	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	3.4	up	0.00133
H89489	2078	telomerase Q6	3.4	up	0.02882
L11689	2157	tetracycline transporter-like protein	3.4	up	0.02062
		excision repair cross-complementing rodent repair deficiency, complementation			
		group 4			
L76588	2225	EST	3.4	up	0.0172
AA424881	949	ADP-ribosyltransferase (NAD ⁺ ; poly (ADP-ribose) polymerase)-like 3	3.39	up	0.03546
N51855	2549	homeo box B5	3.39	up	0.00115
R43952	2852	3-phosphoglycerate dehydrogenase	3.39	up	0.04829
T23516	3082	EST	3.39	up	0.00551
F10290	1815	EST	3.39	up	0.02392
H62474	1970	EST	3.39	up	0.04173
M57730	2358	ephlin-A1	3.39	up	0.00189
X62534	3752	high-mobility group (nonhistone chromosomal) protein 2	3.39	up	0.0186
Z38444	3888	KIAA0923 protein	3.38	up	0.02918
R70253	2944	EST	3.38	up	0.03125
D28589	1637	EST	3.38	up	0.01144
AA173597	373	PL6 protein	3.37	up	0.03622
AA456583	1193	FE65-LIKE 2	3.37	up	0.00139
AA621535	1527	EST	3.37	up	0.0167
AA029288	65	EST	3.36	up	0.04908
AA207103	429	EST	3.36	up	0.00131
AA286911	684	EST	3.36	up	0.00037
T33625	3107	EST	3.36	up	0.04096
AA052941	121	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	3.36	up	0.00088
R15740	2790	EST	3.36	up	0.00288
T33619	3106	prothymosin, alpha (gene sequence 28)	3.36	up	0.01283
M14483	2261	EST	3.36	up	0.00033
AA488872	1363	EST	3.35	up	0.03191
W80730	3604	EST	3.35	up	0.01526
AA115562	229	EST	3.35	up	0.00283
AA620779	1508	golgin-67	3.35	up	0.00297

Table 7A (page 18) Up in HCC vs Normal Sample Set 2

C14835	1571	EST		3.35	up	0.0316
AA442155	1068	transforming acidic coiled-coil containing protein 3		3.35	up	0.00344
AA449828	1130	EST		3.35	up	0.01609
X69910	3784	transmembrane protein (63kD), endoplasmic reticulum/Golgi intermediate compartment		3.35	up	0.00898
AA421213	931	Lsm3 protein		3.34	up	0.00198
AA456646	1196	EST		3.34	up	0.0309
W84447	3614	EST		3.34	up	0.00986
AA479881	1317	EST		3.34	up	0.03289
D51072	1674	bliverdin reductase A		3.34	up	0.0254
U55206	3391	gamma-glutamyl hydrolase (conjugase, folypolyglutaminyl hydrolase)		3.34	up	0.00315
X04347	3677	heterogeneous nuclear ribonucleoprotein A1		3.34	up	0.00123
AA451992	1140	HSPC039 protein		3.33	up	0.01696
D82277	1743	LDL induced EC protein		3.33	up	0.00355
AA426521	967	Sjogren's syndrome nuclear autoantigen 1		3.33	up	0.01163
AA128407	259	EST		3.33	up	0.02298
AA046745	113	Wolf-Hirschhorn syndrome candidate 1		3.33	up	0.00648
AA521149	1420	EST		3.33	up	0.00211
AA608668	1465	erythrocyte membrane protein band 4.1-like 2		3.33	up	0.02014
H89261	2074	EST		3.33	up	0.00319
W63608	3561	EST		3.33	up	0.02443
AA456415	1192	KIAA0537 gene product		3.32	up	0.00155
AA479096	1308	EST		3.32	up	0.00118
T97679	3265	EST		3.32	up	0.01566
NA8790	2531	EST		3.32	up	0.00654
T81393	3227	HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 1		3.32	up	0.0023
U73379	3417	ubiquitin carrier protein E2-C		3.32	up	0.00808
AA071387	158	jumping translocation breakpoint		3.31	up	0.0001
AA504413	1413	EST		3.31	up	0.00036
AA429572	1000	ribosomal protein S6		3.31	up	0.02144
R49395	2880	EST		3.31	up	0.00867
R53109	1340	dimethylarginine dimethylaminohydrolase 2		3.31	up	0.02406
AA485084	304	zinc finger protein homologous to Zip-36 in mouse		3.31	up	0.01232
AA136864	1643	EST		3.3	up	0.00346
D31294	788	EST		3.3	up	0.004
AA398141				3.3	up	0.00211

Table 7A (page 19) Up in HCC vs Normal Sample Set 2

AA465093	1267	TIA1 cytotoxic granule-associated RNA-binding protein	3.3	up	0.01314
H16251	1886	EST	3.3	up	0.03286
AA620761	1507	EST	3.3	up	0.00285
AA053662	129	EST	3.3	up	0.00558
M27830	2314	EST	3.3	up	0.02453
AF004022	1546	serine/threonine kinase 12	3.29	up	0.00841
AA476944	1288	EST	3.29	up	0.00189
AA452167	1142	EST	3.29	up	0.03337
T17339	3075	EST	3.29	up	0.00669
AA291644	701	EST	3.28	up	0.00033
Z47727	3937	polymerase (RNA) II (DNA directed) polypeptide K (7.0KD)	3.28	up	0.00317
AA242757	522	EST	3.27	up	0.00286
AA458890	1206	EST	3.27	up	0.00079
R49482	2883	EST	3.27	up	0.0161
W42778	3510	EST	3.27	up	0.02411
AA022623	44	EST	3.27	up	0.01556
AA435662	1039	EST	3.27	up	0.0433
AA284565	675	EST	3.27	up	0.0362
N34825	2497	DKFZP434P106 protein	3.27	up	0.01334
H65030	1974	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	3.26	up	0.02278
Z40883	3921	EST	3.26	up	0.01863
AA621530	1526	EST	3.26	up	0.00298
AA091752	193	purine-rich element binding protein B	3.25	up	0.01419
AA092290	195	EST	3.25	up	0.01616
AA478971	1306	disabled (Drosophila) homolog 2 (mitogen-responsive phosphoprotein)	3.25	up	0.02698
AA610073	1497	EST	3.25	up	0.00859
AA251230	540	EST	3.25	up	0.01417
N64374	2607	KIAA0537 gene product	3.25	up	0.01652
W69468	3571	EST	3.25	up	0.00055
AA426374	964	tubulin, alpha 2	3.25	up	0.00055
D21063	1628	minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin)	3.25	up	0.04346
AA598589	1431	EST	3.25	up	0.03558
R16144	2793	EST	3.24	up	0.00432
AA195067	414	GTPase activating protein-like	3.24	up	0.0087
W42788	3511	deoxynucleotidyltransferase, terminal	3.24	up	0.00606
U80426	3452	nuclear RNA helicase, DECD variant of DEAD box family	3.24	up	0.02251
			3.24	up	0.00035

Table 7A (page 20) Up in HCC vs Normal Sample Set 2

AA279418	626	EST	KIAA1067 protein	3.23	up	0.02054
F04479	1789	EST		3.23	up	0.04522
T94452	3256	EST		3.23	up	0.02245
W47206	3532	EST		3.23	up	0.01931
AA074182	159	EST	superkiller viralicidic activity 2 (S. cerevisiae homolog-like)	3.23	up	0.00642
AA406384	875	EST	KIAA0670 protein/acinus	3.23	up	0.00486
L08797	2143	EST	chemokine (C-X-C motif), receptor 4 (tusn)	3.23	up	0.04782
T99312	3269	EST		3.22	up	0.00084
R54614	2901	EST		3.22	up	0.00334
D38305	1652	EST	transducer of ERBB2, 1	3.22	up	0.0215
AA495857	1394	EST		3.21	up	0.02243
W28366	3488	EST		3.21	up	0.01007
AA465342	1271	EST		3.21	up	0.01378
M97855	2435	EST	nuclear autoantigenic sperm protein (histone-binding)	3.21	up	0.00444
T10316	3051	EST		3.2	up	0.04794
AA429470	996	EST		3.2	up	0.0153
AA047704	120	EST		3.2	up	0.0029
AA132514	272	EST		3.2	up	0.00876
X14487	3699	EST	keratin 10 (epidermolytic hyperkeratosis; keratosis palmaris et plantaris)	3.19	up	0.01268
AA431719	363	EST		3.19	up	0.01871
AA070485	1025	EST		3.19	up	0.00294
T47959	156	EST	interleukin 13 receptor, alpha 1	3.19	up	0.03465
AA476754	3127	EST	ceroid-lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeier-Vogt disease)	3.19	up	0.02283
M91083	2418	EST	chromosome 11 open reading frame 13	3.19	up	0.00243
AA476754	1287	EST		3.18	up	0.01686
AA046410	110	EST		3.18	up	0.00797
AA131220	267	EST		3.18	up	0.00974
H73484	1995	EST	ferritin, heavy polypeptide 1	3.18	up	0.00432
M61916	2372	EST	laminin, beta 1	3.18	up	0.01171
AA453628	1154	EST		3.17	up	0.00849
AA465218	1288	EST	DKFZP586M1523 protein	3.17	up	0.00357
N31597	2486	EST	DKFZP564G2022 protein	3.17	up	0.03017
AA021549	42	EST		3.17	up	0.00158
AA025166	50	EST	fusion, derived from t(12;16) malignant liposarcoma	3.17	up	0.00009
AA252524	555	EST		3.17	up	0.00686
W46810	3528	EST	HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2	3.17	up	0.03434

Table 7A (page 21) Up in HCC vs Normal Sample Set 2

AA045365	106	EST	3.17	up	0.0149
D57317	1688	activated RNA polymerase II transcription cofactor 4	3.17	up	0.00464
D60710	1734	integral type I protein	3.17	up	0.04549
AA236694	724	seven transmembrane domain protein	3.16	up	0.00076
AA256131	574	glycophosphatidylinositol anchor attachment 1	3.16	up	0.00011
AA282571	662	FSHD region gene 1	3.16	up	0.01355
EST			3.16	up	0.00523
AA321833	736	Fanconi anemia, complementation group G	3.16	up	0.01007
AA430675	1019	CGI-96 protein	3.16	up	0.00744
AA235853	503	EST	3.16	up	0.01262
N93316	2732	EST	3.16	up	0.0083
R51908	2891	EST	3.15	up	0.02837
AA136474	301	Mel (mouse) homolog 2	3.15	up	0.00952
AA463934	1253	splicing factor 3b, subunit 4, 49kD	3.15	up	0.00654
W56642	3544	EST	3.15	up	0.03914
AA070206	155	EST	3.15	up	0.01223
AA251428	542	DKFZP586I2223 protein	3.15	up	0.00035
AA253011	558	KIAA0713 protein	3.15	up	0.02028
AA258387	594	EST	3.15	up	0.02116
AA621146	1514	MUF1 protein	3.15	up	0.01659
N9879	2650	dreb1n 1	3.15	up	0.01572
AA047379	119	karyopherin (importin) beta 1	3.14	up	0.01895
AA388563	797	EST	3.14	up	0.0483
AA478415	1299	death associated protein 3	3.14	up	0.00833
U18321	3317	putative type II membrane protein	3.13	up	0.00071
AA482319	1335	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	3.13	up	0.00327
AA086412	187	EST	3.13	up	0.03874
AA256268	576	EST	3.13	up	0.00551
AA450247	1133	EST	3.13	up	0.01571
AA621752	1529	26S proteasome-associated pad1 homolog	3.13	up	0.02128
D20899	1626	EST	3.13	up	0.01194
H69987	2071	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	3.13	up	0.02492
N90238	2711	EST	3.13	up	0.01863
R39610	2837	calpain, large polypeptide L2	3.13	up	0.01523
X14850	3703	H2A histone family, member X	3.13	up	0.02376
Y08999	3852	actin related protein 2/3 complex, subunit 1A (41 kD)	3.13	up	0.01206
HG2994-HT4850		elastin (supravalvular aortic stenosis, Williams-Beuren syndrome)	3.13	up	

Table 7A (page 22) Up in HCC vs Normal Sample Set 2

AA446570	1089	EST		3.12	up	0.02228
D13636	1606	general transcription factor IIIC, polypeptide 2 (beta subunit, 110kD)		3.12	up	0.00022
L34587	2200	transcription elongation factor B (SIII), polypeptide 1 (15kD, elongin C)		3.12	up	0.00946
S67070	3022	heat shock 27kD protein 2		3.12	up	0.01888
U58321	3397	DEAD/HE (Asp-Glu-Ala-Asp/His) box polypeptide 17 (72kD)		3.12	up	0.02469
AA429825	1003	DKFZP566B023 protein		3.11	up	0.01857
W49743	3537	EST		3.11	up	0.01121
N69084	2642	EST		3.11	up	0.0094
AA236412	511	EST		3.1	up	0.04463
W02695	3466	EST		3.1	up	0.04745
AA285132	682	apoptotic protease activating factor		3.1	up	0.00844
AA621367	1523	EST		3.1	up	0.00066
H48459	1937	KIAA0186 gene product		3.1	up	0.02325
N53067	2556	DKFZP547E1010 protein		3.1	up	0.00101
X92898	3826	DNA segment on chromosome X (unique) 9879 expressed sequence		3.1	up	0.0405
AA005262	13	EST		3.09	up	0.0064
AA430154	1014	EST		3.09	up	0.04401
AA433947	1034	EST		3.09	up	0.00253
AA599808	1455	EST		3.09	up	0.00726
Z38431	3886	EST		3.09	up	0.0083
AA405544	861	EST		3.09	up	0.04146
AA446870	1098	EST		3.09	up	0.01627
D80917	1736	KIAA0670 protein/acinus		3.09	up	0.00168
W72187	3579	EST		3.09	up	0.00134
AA478615	1305	H1 histone family, member X		3.09	up	0.0499
W15495	3473	chromosome 21 open reading frame 5		3.09	up	0.00491
W58247	3548	kinesin family member 4		3.08	up	0.00048
AA428204	987	cofactor required for Sp1 transcriptional activation, subunit 6 (77kD)		3.08	up	0.00313
AA481060	1326	EST		3.08	up	0.00029
AA481420	1327	EST		3.08	up	0.0206
AA505141	1418	EST		3.08	up	0.02327
T41078	3120	bromodomain adjacent to zinc finger domain, 2B		3.08	up	0.03426
N29484	2477	EST		3.08	up	0.04834
R60512	2917	KIAA0181 protein		3.08	up	0.00856
AA011679	32	EST		3.08	up	0.03649
AA427734	977	cholinergic receptor, nicotinic, epsilon polypeptide		3.08	up	0.04796

Table 7A (page 23) Up in HCC vs Normal Sample Set 2

D86857	1754	KIAA0202 protein	3.08	up	0.02949
M86667	2410	nucleosome assembly protein 1-like 1	3.08	up	0.00473
AA031814	70	KIAA0958 protein	3.07	up	0.00681
AA236904	518	EST	3.07	up	0.01503
D80946	1737	SFRS protein kinase 1	3.07	up	0.00986
W42674	3509	EST	3.07	up	0.0261
W74536	3595	advanced glycosylation end product-specific receptor	3.07	up	0.00251
AA435681	1041	EST	3.07	up	0.01166
AA599469	1450	EST	3.07	up	0.04154
D13370	1603	APEX nuclease (multifunctional DNA repair enzyme)	3.07	up	0.00857
HG4297-HT4567	2421	activated RNA polymerase II transcription cofactor 4	3.07	up	0.00787
M93036	3342	membrane component, chromosomal 4, surface marker (35kD glycoprotein)	3.07	up	0.04199
U30825	1981	splicing factor, arginine/serine-rich 9	3.06	up	0.01928
H67964	413	EST	3.06	up	0.02707
AA194998	1046	purinergic receptor (family A group 5)	3.06	up	0.04752
AA435769	1259	EST	3.06	up	0.00615
AA464423	543	EST	3.06	up	0.01416
AA251766	580	EST	3.06	up	0.0098
AA256524	905	AD022 protein	3.06	up	0.00626
AA412720	1875	SUMO-1 activating enzyme subunit 2	3.06	up	0.02153
H1320	2808	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3	3.06	up	0.00167
F28636	3114	small nuclear ribonucleoprotein polypeptide B'	3.06	up	0.03678
T40439	3801	heterogeneous nuclear ribonucleoprotein A1	3.06	up	0.02842
X79538	1861	EST	3.05	up	0.00449
H09241	955	eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD)	3.05	up	0.01487
AA425544	1782	EST	3.05	up	0.0346
F02863	1290	calumenin	3.05	up	0.03504
AA477316	3547	neuroendocrine-specific protein C like (foccen)	3.05	up	0.00608
W58081	721	EST	3.04	up	0.03767
AA238868	240	EST	3.04	up	0.0054
AA125808	513	EST	3.04	up	0.02112
AA236532	3933	succinate dehydrogenase complex, subunit A (Fp)	3.04	up	0.03747
Z41747	1439	heterogeneous nuclear ribonucleoprotein U (scavfold attachment factor A)	3.04	up	0.01336
AA598829	3848	ubiquitin-cytochrome c reductase hinge protein	3.04	up	0.00967
Y00764	2514	EST	3.03	up	0.01294
N42272					0.0017

Table 7A (page 24) Up in HCC vs Normal Sample Set 2

AA284720	676	EST		3.03	up	0.00252
R46079	2867	EST		3.03	up	0.00755
H98850	2055		dolichyl-diphosphooligosaccharide-protein glycosyltransferase	3.03	up	0.00879
AA426291	961	EST		3.03	up	0.00365
H98364	2075		chloride channel 7	3.03	up	0.01727
R06400	2767	EST		3.03	up	0.03266
R20817	2796		ubiquitin-conjugating enzyme E2A (RAD6 homolog)	3.03	up	0.01091
D86977	1757		KIAA0224 gene product	3.03	up	0.00053
AA442400	1071		hepatitis B virus x-interacting protein (9.6kD)	3.02	up	0.04037
AA055892	134	EST		3.02	up	0.04984
W04507	3468		prefoldin 4	3.02	up	0.04091
Z38904	3893	EST		3.02	up	0.00814
AA252355	553	EST		3.02	up	0.00715
AA233589	719		zinc finger protein	3.02	up	0.01809
AA453656	1155	EST		3.02	up	0.00958
U68142	3410	RAB2, member RAS oncogene family-like		3.02	up	0.0296
U90904	3457	EST		3.02	up	0.00381
J04029	2102		keratin 10 (epidermolytic hyperkeratosis; keratosis palmaris et plantaris)	3.02	up	0.00032
AA598749	1438	EST		3.01	up	0.03714
F10741	1822	KIAA0622 protein		3.01	up	0.03079
AA365708	764	microfilament-associated protein 1		3.01	up	0.02372
AA428447	965	EST		3.01	up	0.02414
W57931	3546	EST		3.01	up	0.02661
AA181580	383	karyopherin (importin) beta 1		3.01	up	0.0125
H27897	1911	hypothetical protein		3.01	up	0.00174
N51590	2545	EST		3.01	up	0.04345
R46337	2888	secretory carrier membrane protein 3		3.01	up	0.00374
T68935	3178	EST		3.01	up	0.00123
AA173505	372	EST		3	up	0.01736
AA476473	1285	EST		3	up	0.01324
AA448252	1114	EST		3	up	0.00256
W95941	3663	EST		3	up	0.00466

Table 7B. (page 1) Down in HCC 2 vs Normal Sample Set 2

Fragment Name	SEQ ID :	Known Gene Name	Fold Change	Direction	Pvalue
H81070	2006	RNA helicase-related protein	39.64	down	0.00002
AA007395	17	alcohol dehydrogenase 4 (class II), pi polypeptide	37.78	down	0.00039
T68711	3187	EST	35.98	down	0.0003
T48075	3129	hemoglobin, alpha 1	35.75	down	0.00471
N80129	2702	metallothionein 1L	28.87	down	0.00999
AA010605	26	4-hydroxyphenylpyruvate dioxygenase	25.52	down	0.00855
W89946	3636	putative glycine-N-acyltransferase	25.28	down	0.00221
T48278	3131	EST	24.1	down	0.00595
T98813	3261	KIAA1051 protein	20.36	down	0.01361
H58992	1960	formyltetrahydrofolate dehydrogenase cytochrome P450, subfamily VIIIB (sterol 12-alpha-hydroxylase), polypeptide 1	20.18	down	0.00485
R97419	3003	polypeptide 1	19.3	down	0.00807
H80901	2005	ficollin (collagen/fibrinogen domain-containing) 3 (Hakata antigen)	18.59	down	0
J03910	2101	EST	18.13	down	0.00119
M28873	2318	cytochrome P450, subfamily IIB (phenobarbital-inducible)	17.92	down	0.01469
U58814	3392	deoxyribonuclease I-like 3	17.69	down	0.00007
T57931	3183	fibrinogen, B beta polypeptide	17.25	down	0.00128
T58756	3155	EST	16.61	down	0
R49602	2884	EST	16.17	down	0.00279
T69305	3196	EST	15.87	down	0.02258
Z20777	3863	EST	15.73	down	0.00147
H58673	1959	EST	15.49	down	0.00002
T56281	3150	RNA helicase-related protein	14.64	down	0.00027
K03192	2127	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6	14.19	down	0.0307
AA448002	1113	putative type II membrane protein	14.14	down	0
T68873	3189	metallothionein 1L	13.68	down	0.00593
R89811	2979	HGF activator	13.29	down	0.00148
M14777	2263	glutathione S-transferase A2, glutathione S-transferase A3	13.23	down	0.03224
D31628	1648	4-hydroxyphenylpyruvate dioxygenase	13.18	down	0.02064
H20543	1897	DKFZP588B1621 protein	13.06	down	0.00218
W81552	3612	EST	12.97	down	0.00244
N54053	2560	secreted phosphoprotein 2, 24kD	12.87	down	0.01821
R40395	2840	lecithin-cholesterol acyltransferase	12.85	down	0.01334
H08102	1858	breast cell glutaminase	12.85	down	0.0424

Table 7B. (page 2) Down in HCC 2 vs Normal Sample Set 2

AA455888	1184	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase)	12.51	down	0
R12472	2788	EST	12.09	down	0.02379
U22029	3326	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7	11.85	down	0.03538
AA448864	1095	EST	11.57	down	0.0001
N80129	2702	metallothionein 1L	11.48	down	0.00167
M33317	2338	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7	11.47	down	0.02611
AA348922	758	fatty-acid-Coenzyme A ligase, long-chain 1, fatty-acid-Coenzyme A ligase, long-chain 2	11.4	down	0.00948
T98676	3268	EST	11.15	down	0.0323
M81349	2404	serum amyloid A4, constitutive	10.97	down	0.01946
AA074885	161	macrophage receptor with collagenous structure	10.88	down	0.00087
M16974	2277	complement component 8, alpha polypeptide	10.85	down	0.02313
N70966	2662	solute carrier family 10 (sodium/bile acid cotransporter family), member 1	10.8	down	0.02894
AA279576	630	deoxyribonuclease I-like 3	10.52	down	0.00181
N68596	2635	betaine-homocysteine methyltransferase	10.46	down	0.01971
AA433946	1033	EST	10.24	down	0.00663
W72382	3581	oxidative 3 alpha hydroxysteroid dehydrogenase; retinol dehydrogenase	9.89	down	0.03091
X56411	3734	alcohol dehydrogenase 4 (class II), pi polypeptide	9.87	down	0.01416
D00003	1586	cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 3	9.46	down	0.00001
AA448300	1116	FXD domain-containing ion transport regulator 1 (phospholipase)	9.27	down	0.00108
H77597	2000	metallothionein 1H	9.01	down	0.00022
HG1428-HT1428		hemoglobin, beta	8.98	down	0.02071
R08564	2779	plasminogen-like	8.77	down	0.01284
T51150	3136	EST	8.65	down	0.00553
H93381	2036	EST	8.62	down	0.01271
N58009	2577	forminotransferase cyclodeaminase	8.52	down	0.01608
AA417046	915	fatty-acid-Coenzyme A ligase, very long-chain 1	8.49	down	0.02476
T57140	3151	paraoxonase 3	8.47	down	0.01048
N70358	2656	growth hormone receptor	8.47	down	0.00816
AA256387	579	paraoxonase 3	8.37	down	0.02326
R98073	3008	EST	8.37	down	0.01436
N74025	2684	deiodinase, liothyronine, type I	8.18	down	0.01363
N51117	2543	EST	8.17	down	0.00105
M29874	2319	cytochrome P450, subfamily IIB (phenobarbital-inducible)	8.13	down	0.01064
L04751	2138	cytochrome P450, subfamily IVA, polypeptide 11	8.13	down	0.02065

Table 7B. (page 3) Down in HCC 2 vs Normal Sample Set 2

X13830	3697	cytochrome P450, subfamily 1A (phenobarbital-inducible), polypeptide 6	8.1	down	0.0219
U50929	3379	betaine-homocysteine methyltransferase	8.04	down	0.0188
		aldo-keto reductase family 1, member D1 (delta 4,3-ketosteroid-5-beta-reductase)			
Z28339	3872	phytyl-CoA hydroxylase (Refsum disease)	8.03	down	0.00853
T83397	3232	cytochrome P450, subfamily 1A (phenobarbital-inducible), polypeptide 6	8.03	down	0.02173
K03192	2127	EST	8.02	down	0.03483
A4401562	830	aldenylate oxidase 1	7.97	down	0.00527
AA035245	79	dihydrate dehydrogenase	7.97	down	0.02387
M94065	2424	methionine adenosyltransferase 1, alpha	7.87	down	0.0011
AA453988	1160	pregnancy-zone protein	7.78	down	0.02085
X54380	3727	EST	7.71	down	0.00069
H57060	1954	CD5 antigen-like (scavenger receptor cysteine rich family)	7.57	down	0.00875
R99591	3015	hemoglobin, zeta	7.41	down	0.00443
Z84721	3950	HGF activator	7.39	down	0.01321
D14012	1612	small inducible cytokine subfamily A (Cys-Cys), member 14	7.27	down	0.00145
Z49269	3942	UDP glycosyltransferase 2 family, polypeptide B10	7.24	down	0.01047
T74542	3214	EST	7.19	down	0.011
AA235310	496	EST	7.08	down	0.04056
R73816	2960	EST	7.05	down	0.01287
AA281566	690	KIAA0187 gene product	6.99	down	0.00023
N51773	2548	EST	6.92	down	0.01639
W28944	3493	EST	6.9	down	0.01014
N54479	2567	EST	6.85	down	0.03334
N63845	2604	phytyl-CoA hydroxylase (Refsum disease)	6.82	down	0.00369
D00003	1586	cytochrome P450, subfamily 1A (nephedipine oxidase), polypeptide 3	6.82	down	0.01328
AA236455	512	EST	6.8	down	0.02418
		coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B)	6.73	down	
K02402	2125	EST	6.64	down	0.04082
H59136	1982	EST	6.63	down	0.00033
AA057678	143	EST	6.63	down	0.00089
X16349	3709	sex hormone-binding globulin	6.61	down	0.00008
R65593	2934	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	6.6	down	0.01982
AA099225	206	EST	6.59	down	0.00064
N54950	2572	ketohexokinase (fructokinase)	6.47	down	0.0223
N54417	2566	fibrinogen, A alpha polypeptide	6.47	down	0.00733
R92475	2986	flavin containing monooxygenase 3	6.46	down	0.02269

Table 7B. (page 4) Down in HCC 2 vs Normal Sample Set 2

R69417	2941	EST		6.43	0.00778
R40492	2841	EST		6.4	0.00527
U06641	3286	UDP glycosyltransferase 2 family, polypeptide B15		6.37	0.01594
AA598937	1458	insulin-like growth factor-binding protein 4		6.31	0.0477
TC6364	3169	ficollin (collagen/fibrinogen domain-containing) 3 (Hakata antigen)		6.27	0.00455
AA406820	1378	EST		6.25	0.03613
RS9722	2915	EST		6.24	0.02361
M10943	2234	metallothionein 1F (functional)		6.23	0.00007
X95190	3829	acyl-Coenzyme A oxidase 2, branched chain		6.22	0.00162
AA232114	463	epoxide hydrolase 2, cytoplasmic		6.18	0.00231
J02843	2088	cytochrome P450, subfamily IIE (ethanol-inducible)		6.18	0.01308
AA150776	330	EST		6.17	0.00004
T51617	3137	solute carrier family 22 (extraneuronal monoamine transporter), member 3		6.16	0.04198
N64036	2606	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase		6.12	0.00476
T74608	3215	hydroxyacid oxidase (glycolate oxidase) 1		6.1	0.00249
M76665	2397	hydroxyesteroid (11-beta) dehydrogenase 1		6.06	0.01317
L12760	2182	phosphoenolpyruvate carboxylase 1 (soluble)		6.06	0.01005
W86075	3621	EST		6.04	0.01486
D12620	1601	cytochrome P450, subfamily IVF, polypeptide 2, cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase)		6.03	0.03947
M83652	2407	properdin P factor, complement		6	0.00002
D62518	1708	EST		5.96	0.00027
L16883	2166	cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 9		5.85	0.04368
AA233152	467	EST		5.8	0.00272
AA343142	751	EST		5.79	0.02747
U56814	3392	deoxyribonuclease I-like 3		5.75	0.00152
T78433	3219	glycogen synthase 2 (liver)		5.74	0.00949
AA454733	1189	EST		5.73	0.00748
AA010205	23	EST		5.71	0.00014
AA284795	678	phosphatidylethanolamine N-methyltransferase		5.7	0.00004
N31741	2468	serine hydroxymethyltransferase 1 (soluble)		5.66	0.00212
X76717	3794	metallothionein 1L		5.64	0.00215
W55903	3543	adipose differentiation-related protein; adipophilin		5.64	0.00014

Table 7B. (page 5) Down in HCC 2 vs Normal Sample Set 2

AA253369	563	EST		5.64	down	0.00478
D13243	1602	pyruvate kinase, liver and RBC		5.58	down	0.04029
AA007629	19	EST		5.55	down	0.00005
R93776	2992	EST		5.54	down	0.00084
D78011	1717	dihydropyrimidinase		5.51	down	0.0312
AA005358	14	EST		5.51	down	0.00059
R77628	2965	insulin induced gene 1		5.51	down	0.0404
W87532	3631	putative glycine-N-acetyltransferase		5.46	down	0.00151
AA460661	1229	EST		5.42	down	0.03813
M16594	2272	glutathione S-transferase A2		5.4	down	0.02021
T52813	3141	putative lymphocyte G0/G1 switch gene		5.39	down	0.02767
L32140	2192	afamin		5.33	down	0.03807
AA039335	89	coagulation factor XII (Hageman factor)		5.31	down	0.01119
U20530	3321	secreted phosphoprotein 2, 24KD		5.31	down	0.01787
AA236401	510	EST		5.29	down	0.00943
AA478298	1297	adipose specific 2		5.28	down	0.002
AA010619	27	EST		5.23	down	0.00068
AA609519	1482	EST		5.23	down	0.03367
L21893	2176	solute carrier family 10 (sodium/bile acid cotransporter family), member 1		5.21	down	0.00323
AA287122	686	EST		5.15	down	0.00005
AA608837	1472	EST		5.14	down	0.02023
M83772	2408	flavin containing monooxygenase 3		5.13	down	0.00183
S70004	3028	glycogen synthase 2 (liver)		5.12	down	0.00032
AA172372	370	EST		5.11	down	0.01108
AA090439	192	ribosomal protein S6		5.1	down	0.00307
AA236455	512	EST		5.07	down	0.01733
J04449	2110	cytochrome P450, subfamily IIIA (naphthalene oxidase), polypeptide 3		5.06	down	0.00044
AA291749	703	estrogen receptor 1				
		aldo-keto reductase family 1, member C4 (chlorocone reductase; 3-alpha				
S88287	3024	hydroxysteroid dehydrogenase, type I; dihydrotol dehydrogenase 4)		5.04	down	0.02895
AA459652	1202	EST		5.03	down	0.00065
K02766	2126	complement component 9		5.03	down	0.0433
AA297532	725	EST		5.01	down	0.00745
H29568	1914	EST		5	down	0.00426
AA285053	681	EST		5	down	0.00718

Table 7B, (page 6) Down in HCC 2 vs Normal Sample Set 2

Z40802	3923	SEC14 (S. cerevisiae)-like 2	4.97	down	0.04827
T72906	3209	EST	4.91	down	0.00512
N22938	2452	serum amyloid A4, constitutive	4.91	down	0.01918
R79750	2970	EST	4.89	down	0.00895
A6089537	1483	hepatic leukemia factor	4.88	down	0.00118
N57464	2575	CCAAT/enhancer binding protein (C/EBP), delta	4.87	down	0.00111
A1198287	420	EST	4.86	down	0.01656
J05428	2120	UDP glucosyltransferase 2 family, polypeptide B7	4.86	down	0.03414
D49357	1685	methionine adenosyltransferase 1, alpha	4.85	down	0.04435
R40899	2843	glycine receptor, beta	4.84	down	0.02869
A4480991	1323	EST	4.83	down	0.03498
M93439	2437	transducin-like enhancer of split 4, homolog of Drosophila E(sp1)	4.82	down	0.00121
X06562	3683	growth hormone receptor	4.8	down	0.00507
A4260640	969	small inducible cytokine subfamily B (Cys-X-Cys), member 14 (BRAK)	4.8	down	0.00539
A1194997	412	EST	4.8	down	0.00153
N39201	2508	protease inhibitor 4 (kallistatin)	4.79	down	0.02015
T16484	3070	EST	4.78	down	0.00009
N56550	2587	EST	4.78	down	0.02924
A046747	114	EST	4.77	down	0.00023
T72502	3207	EST	4.74	down	0.00404
A085997	183	UDP glucosyltransferase 1	4.74	down	0.03035
D12620	1601	cytochrome P450, subfamily IVF, polypeptide 2, cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase)	4.7	down	0.04091
U51010	3380	nicotinamide N-methyltransferase	4.69	down	0.03099
N87105	2623	EST	4.69	down	0.00194
R93714	2961	feitin B	4.65	down	0.03704
A076383	171	EST	4.65	down	0.00593
N73543	2674	EST	4.64	down	0.03981
Y00317	3842	UDP glucosyltransferase 2 family, polypeptide B4	4.63	down	0.02886
U95090	3463	nephrosis 1, congenital, Finnish type (nephtrin)	4.63	down	0.01595
T40936	3117	EST	4.62	down	0.02844
A4477119	1289	EST	4.62	down	0.00072
HG2841-HT2968		albumin	4.62	down	0.00552
A3377087	771	EST	4.61	down	0.01616
Z48475	3940	glucokinase (hexokinase 4) regulatory protein	4.6	down	0.01693
R94674	2995	EST	4.58	down	0.0047

Table 7B, (page 7) Down in HCC 2 vs Normal Sample Set 2

N52322	2552	EST		4.58	down	0.02077
AA621131	1513	EST		4.57	down	0.03867
R01023	2751	glucokinase (hexokinase 4) regulatory protein		4.56	down	0.04036
L09229	2150	fatty-acid-Coenzyme A ligase, long-chain 1,fatty-acid-Coenzyme A ligase, long-chain 2		4.5	down	0.01347
N29764	2481	EST		4.48	down	0.013
Z40259	3916	EST		4.47	down	0.00093
M31687	2331	cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2		4.47	down	0.01116
W28996	3483	EST		4.46	down	0.00734
U02388	3277	cytochrome P450, subfamily IVF, polypeptide 2		4.4	down	0.00761
W67147	3565	deleted in liver cancer 1		4.37	down	0.00069
H55759	1949	EST		4.36	down	0.0398
AA112101	222	EST		4.36	down	0.03175
D79276	1722	succinate-CoA ligase, GDP-forming, beta subunit		4.34	down	0.00836
R66002	2935	EST		4.33	down	0.00789
N66066	2612	EST		4.33	down	0.0184
AA398892	800	similar to yeast BET3 (S. cerevisiae)		4.33	down	0.01326
C20653	1578	EST		4.32	down	0.00718
R22905	2800	EST		4.31	down	0.01744
M25079	2305	hemoglobin, beta		4.31	down	0.01567
N39163	2508	metallothionein 1L		4.3	down	0.03917
M26393	2309	acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain		4.3	down	0.02294
H02855	1832	EST		4.29	down	0.0138
X90579	3816	EST		4.26	down	0.04759
X63359	3756	UDP glycosyltransferase 2 family, polypeptide B10		4.26	down	0.01725
X72177	3787	complement component 6		4.25	down	0.01598
W95041	3659	EST		4.22	down	0.01005
AA223902	450	EST		4.22	down	0.01315
AA435746	1043	GTPase activating protein-like		4.21	down	0.03192
T68878	3190	carboxylesterase 1 (monocytic/macrophage serine esterase 1)		4.18	down	0.02474
AA100026	211	EST		4.18	down	0.00567
L27050	2186	apolipoprotein F		4.18	down	0.04801
D10040	1593	fatty-acid-Coenzyme A ligase, long-chain 2		4.15	down	0.02947
AA253216	561	EST		4.14	down	0.0014
H93246	2035	EST		4.14	down	0.00058

Table 7b. (page 8) Down in HCC 2 vs Normal Sample Set 2

592	EST	4.1	0.02962
A4258350	corticotropin releasing hormone-binding protein	down	0.00076
X58022	EST	4.09	0.00096
Z40305	EST	4.09	0.00235
AA599814	EST	4.09	0.02486
AA428325	superoxide dismutase 2, mitochondrial	down	0.0389
T61649	EST	4.08	0.02972
D11756	EST	4.08	0.00768
N77326	EST	4.08	0.00273
X57491	glutamate dehydrogenase 1	down	0.00083
W28414	EST	4.06	0.00753
T98199	EST	4.05	0.01412
M10942	metallothionein 1E (functional)	down	0.01498
H08935	electron-transferring-flavoprotein dehydrogenase	down	0.00128
AA129390	EST	4.03	0.00284
W87781	EST	4.02	0.00563
AA621209	similar to Caenorhabditis elegans protein C42C1.9	down	0.021
L05144	phosphoenolpyruvate carboxykinase 1 (soluble)	down	0.0175
N34804	DKFZP434J214 protein	down	0.04272
U08006	complement component 8, alpha polypeptide	down	0.00012
Z69923	HGF activator	down	0.00123
H87765	KIAA0626 gene product	down	0.005
R43799	EST	3.94	0.03073
C02460	EST	3.93	0.00325
H99727	adipose differentiation-related protein; adipophilin	down	0.01409
A4485511	EST	3.91	0.00265
AA477919	EST	3.9	0.00274
M63967	aldehyde dehydrogenase 5	down	0.01051
W44745	EST	3.87	0.02935
N63391	cytochrome P450, subfamily 1 (aromatic compound-inducible), polypeptide 2	down	0.00844
L00389	EST	3.87	0.00288
W63728	EST	3.86	0.01713
AA435985	peptidyl arginine deiminase, type II	down	0.00875
AA151676	SEC14 (S. cerevisiae)-like 2	down	0.0349
AA076326	complement component 9	down	0.01793
X02176		3.84	

Table 7B. (page 9) Down in HCC 2 vs Normal Sample Set 2

A4039816	90	EST		3.84	0.00997
HG2730-HT2827		fibrinogen, A alpha polypeptide	down	3.84	0.00795
H66367	1977	EST	down	3.84	0.00133
M30185	2321	cholesteryl ester transfer protein, plasma	down	3.82	0.00131
AA167565	362	EST	down	3.81	0.04057
HG2379-HT3596		serine hydroxymethyltransferase 1 (soluble)	down	3.81	0.01937
D90042	1767	N-acetyltransferase 2 (erythrine N-acetyltransferase)	down	3.79	0.00697
X16260	3707	inter-alpha (globulin) inhibitor, H1 polypeptide	down	3.76	0.00291
AA122345	238	glutamate dehydrogenase 1	down	3.75	0.01058
M68826	2412	insulin-like growth factor binding protein, acid labile subunit	down	3.75	0.01157
L11831	2159	serine hydroxymethyltransferase 1 (soluble)	down	3.74	0.0056
A4460012	1224	solute carrier family 22 (extraneuronal monoamine transporter), member 3	down	3.73	0.0313
X97324	3836	adipose differentiation-related protein; adipophilin	down	3.72	0.00202
D63160	1709	ficollin (collagen/fibrinogen domain-containing lectin) 2 (hucollin)	down	3.72	0.00312
W66600	3625	EST	down	3.67	0.04208
N52271	2551	LIM protein (similar to rat protein kinase C-binding enigma)	down	3.67	0.01102
AA402224	836	growth arrest and DNA-damage-inducible, gamma	down	3.66	0.0033
N91087	2716	EST	down	3.66	0.00725
C02386	1561	hypothetical protein	down	3.66	0.00673
U27699	3339	solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12	down	3.65	0.00381
U08021	3290	nicotinamide N-methyltransferase	down	3.63	0.03726
HG2730-HT2828		fibrinogen, A alpha polypeptide	down	3.62	0.01013
R80048	2971	EST	down	3.61	0.01209
M94065	2424	dihydropyruvate dehydrogenase	down	3.61	0.00229
J03810	2099	solute carrier family 2 (facilitated glucose transporter), member 2	down	3.6	0.02376
		cytochrome P450, subfamily IIIA (naphthalene oxidase), polypeptide 3, cytochrome P450, subfamily IIIA (naphthalene oxidase), polypeptide 5, cytochrome P450, subfamily IIIA, polypeptide 7			
D00408	1589	EST	down	3.58	0.02048
C20810	1579	EST	down	3.57	0.02116
T61256	3161	ketohexokinase (fructokinase)	down	3.56	0.04957
AA164586	359	estrogen receptor 1	down	3.56	0.01231
S77356	3033	EST	down	3.55	0.03874
X14813	3702	acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)	down	3.53	0.00059

Table 7B. (page 10) Down in HCC 2 vs Normal Sample Set 2

A4460449	1228	EST	down	3.53	0.0124
N99542	2746	orosomucoid 1	down	3.53	0.00607
W07723	3470	EST	down	3.51	0.00026
F02245	1776	monamine oxidase A	down	3.51	0.01892
AA182030	387	EST	down	3.51	0.0403
W45560	3522	EST	down	3.48	0.0179
W73818	3590	EST	down	3.47	0.00927
AA455367	1176	DKFZP686F1018 protein	down	3.47	0.00138
T87174	3239	EST	down	3.46	0.00026
AA282061	652	KIAA0962 protein	down	3.46	0.00998
AA233837	474	EST	down	3.46	0.01365
W73601	3589	EST	down	3.45	0.01382
R09053	2792	EST	down	3.45	0.03074
AA142849	306	EST	down	3.45	0.03495
M61854	2370	cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)	down	3.45	0.02949
AA376875	770	monamine oxidase A	down	3.44	0.00105
N29353	2476	kynurenine 3-monooxygenase	down	3.44	0.01212
N22404	2449	EST	down	3.44	0.02287
AA60802	1470	EST	down	3.44	0.01709
T40995	3118	alcohol dehydrogenase 3 (class I), gamma polypeptide	down	3.42	0.00957
AA035457	80	EST	down	3.41	0.00988
AA401376	829	EST	down	3.39	0.01403
AA018922	40	core promoter element binding protein	down	3.39	0.01801
N69599	2611	EST	down	3.38	0.00785
AA188921	393	similar to <i>Caenorhabditis elegans</i> protein C42C1.9	down	3.38	0.00862
Z41042	3925	EST	down	3.37	0.00703
H27330	1909	EST	down	3.37	0.01318
AA450127	1132	growth arrest and DNA-damage-inducible, beta	down	3.37	0.00647
J05158	2117	carboxypeptidase N, polypeptide 2, 83kD	down	3.37	0.01156
N90584	2713	EST	down	3.36	0.01551
F03969	1795	matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase)	down	3.36	0.01685
M95585	2429	hepatic leukemia factor	down	3.36	0.00492
HG4533-1T4838		protease inhibitor 4 (kallistatin)	down	3.35	0.01605
X06985	3686	heme oxygenase (decycling) 1	down	3.34	0.00045
H66840	1978	EST	down	3.34	0.01894

Table 7B (page 11) Down in HCC 2 vs Normal Sample Set 2

M2385	2392	putative lymphocyte G0/G1 switch gene	3.34	down	0.02943
W28738	3491	phosphodiesterase 6A, cGMP-specific, rod, alpha	3.33	down	0.00222
T47778	3126	flavinogen, A alpha polypeptide	3.33	down	0.00637
AA599472	1451	succinate-CoA ligase, GDP-forming, beta subunit	3.31	down	0.02819
AA084668	180	ubiquitin-like 3	3.31	down	0.02655
M30185	2321	cholesteryl ester transfer protein, plasma	3.31	down	0.00109
L00352	2131	low density lipoprotein receptor (familial hypercholesterolemia)	3.3	down	0.03487
D13705	1610	cyclochrome P450, subfamily IVA, polypeptide 11	3.3	down	0.00651
Z31690	3878	lipase A, lysosomal acid, cholesterol esterase (Wolman disease)	3.29	down	0.00161
AA450114	1131	EST	3.29	down	0.01171
AA282886	663	EST	3.29	down	0.00025
AA397841	780	EST	3.29	down	0.00825
N57934	2576	formin/transferase cyclodeaminase	3.28	down	0.01555
J04093	2106	UDP glycosyltransferase 1	3.28	down	0.02286
X64177	3760	metallothionein 1H	3.26	down	0.03928
T10264	3050	EST	3.26	down	0.01718
C21130	1583	EST	3.24	down	0.03355
AA070191	154	EST	3.24	down	0.00216
H62212	1969	telomeric repeat binding factor 2	3.23	down	0.00513
X13227	3695	D-amino-acid oxidase	3.22	down	0.01753
Z80345	3948	acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain	3.21	down	0.04734
M68895		alcohol dehydrogenase 6 (class V)	3.21	down	0.02095
AA400177	808	EST	3.21	down	0.03901
H09317	1864	EST	3.2	down	0.00914
T68510	3186	EST	3.19	down	0.01504
AA465233	1289	succinate-CoA ligase, GDP-forming, beta subunit	3.19	down	0.00036
AA461444	1239	EST	3.19	down	0.02844
AA147846	317	DKFZP568A0522 protein	3.19	down	0.00508
D78725	1720	KIAA0914 gene product	3.19	down	0.01083
U65932	3404	extracellular matrix protein 1	3.18	down	0.00575
U21931	3325	fructose-bisphosphatase 1	3.17	down	0.0143
T64575	3171	EST	3.16	down	0.01855
M57731	2359	GRO2 oncogene	3.16	down	0.02204
F02028	1774	EST	3.15	down	0.00902
T41232	3121	EST	3.14	down	0.02012
AA210850	431	EST	3.12	down	0.00288

Table 7B. (page 12) Down in HCC 2 vs Normal Sample Set 2

W72044	3577	insulin induced gene 1	3.1	down	0.03445
M63840	2368	monoamine oxidase A	3.1	down	0.01953
H57816	1957	EST	3.09	down	0.01327
H10779	1872	methylene tetrahydrofolate dehydrogenase (NADP+ dependent),	3.09	down	0.0496
M63405	2423	methylene tetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase	3.09	down	0.03285
T41047	3119	methylmalonate-semialdehyde dehydrogenase	3.08	down	0.00553
AA157799	348	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	3.08	down	0.00207
M34276	2341	plasminogen	3.08	down	0.02754
H05704	1848	EST	3.07	down	0.00363
AA069696	150	EST	3.07	down	0.01569
M16750	2273	pim-1 oncogene	3.07	down	0.02391
AA056482	141	EST	3.06	down	0.01313
AA049457	111	EST	3.05	down	0.02078
M13143	2249	kallikrein B plasma, (Fletcher factor) 1	3.04	down	0.008
U50196	3376	adenosine kinase	3.03	down	0.00975
AA090257	190	superoxide dismutase 2, mitochondrial	3.03	down	0.02774
N49902	2539	EST	3.02	down	0.00951
AA442334	1069	EST	3.02	down	0.01936
D45629	1662	EST	3.01	down	0.03105
AA040487	851	EST	3.01	down	0.0069

Table 8A. (page 1) Genes and ESTs expressed only in HCC2 vs Normal2

Fragment Name	SEQ ID :	Known Gene Name	fold change in hcc set 2	p value	hcc sample set 2: Mean	hcc sample set 2: Dev	normal set 2: Mean	normal set 2: Std Dev
A0032407	199	DEK oncogene (DNA binding)	#N/A	#N/A	180.58	107.64	52.11	26.51
A0248283	534	EST	#N/A	#N/A	67.18	45.86	21.63	11.71
A0241466	700	EST	#N/A	#N/A	828.34	830.24	106.63	509.58
A0408443	817	GA32-related on chromosome 22	4.04	0.03751	118.72	123.18	-43.6	-33.96
A0421079	930	EST	#N/A	#N/A	37.17	34.26	15.27	16.75
A0428172	986	Notch [Drosophila] homolog 3	9.63	0.00195	335.57	374.9	-9.64	-15.61
A0464043	1255	EST	3.99	0.00056	116.97	115.99	14.27	25.86
H19562	1896	PTD010 protein	#N/A	#N/A	522.13	432.65	393.81	182.71
L08044	2149	tretinoin factor 3 (intestinal)	#N/A	#N/A	214.6	108.17	107.82	59.8
L29218	2190	CDC-like kinase 2	6.51	0.00019	219.64	237.35	6.53	-10.03
L37747	2206	lamin B1	#N/A	#N/A	43.42	28.65	5.97	5.1
N34257	2494	EST	#N/A	#N/A	20.76	21.48	-1.84	8.53
R50692	2857	KIAA0476 gene product	#N/A	#N/A	197.89	187.87	148.53	63.03
R60368	2916	EST	#N/A	#N/A	29.68	28.93	-28.29	-26.44
R68475	2937	EST	#N/A	#N/A	45.68	32.34	7.64	6.3
T34377	3110	potassium voltage-gated channel, ether- related subfamily, beta member 2	4.55	0.00041	113.59	120.58	6.87	25.69
U75968	3422	DEADH (Asp-Glu-Ala-Asp) box polypeptide 11 (S.cerevisiae CHL1-like helicase)	#N/A	#N/A	187.33	200.16	115.5	77.72
W21426	3480	KIAA0906 gene product	#N/A	#N/A	63.36	64.93	45.59	19.89
W26896	3490	EST	#N/A	#N/A	14.7	20.64	4.28	2.47
X57129	3740	H1 histone family, member 2	4.63	0.00683	137.13	137.75	8.38	28.3
A0024658	47	ribosomal protein S19	7.55	0.00592	278.11	120.83	7.62	10.68
A0029288	65	EST	3.36	0.04908	134.53	56.15	4.09	8.39
A007828	88	KIAA0614 protein	#N/A	#N/A	53.61	46.85	13.32	11.96
A0010465	95	EST	3.63	0.01806	223.8	210.67	180.94	5.48
A0053680	128	EST	#N/A	#N/A	543.66	223.47	95.24	42.99
A1196332	299	cAMP responsive element binding protein 3 (human)	#N/A	#N/A	49.04	33.07	-18.27	13.05
A1196530	324	interferon regulatory factor 3	#N/A	#N/A	32.94	23.12	4.21	8.53
A1149596	325	EST	#N/A	#N/A	24.99	26.5	5.26	9.11
A206023	427	EST	#N/A	#N/A	154.13	170.36	108.57	58.39
A234530	484	N-ethylmaleimide-sensitive factor	#N/A	#N/A	135.48	82.59	51.33	35.02
A0251909	549	EST	3.59	0.01128	92.19	79.34	8.88	11.22

Table 8A. (page 2) Genes and ESTs expressed only in HCC2 vs Normal2

AA6262030	605	EST	#N/A	#N/A	119.75	89.86	103.84	31.51	32.91	14.46
AA6262177	608	ribonuclease H1, large subunit	4.57	0.00724	242.42	199.5	182.26	44.51	36.87	22.37
AA6263459	671	EST	#N/A	#N/A	91.82	76.73	42.28	46.87	45.86	21.54
AA6261644	701	EST	3.28	0.00033	114.73	117.29	44.59	32.77	30.24	21.1
AA6338760	744	EST	3.96	0.01307	129.77	130.26	87.27	14.91	21.91	26.96
AA6382005	789	EST	4.22	0.00059	125.4	107.84	63.85	15.01	7.37	26.26
tumor suppressor deleted in oral cancer-										
AA601965	833	related 1	7.58	0.00089	932.74	924.02	593.69	120.58	93.29	109.41
AA602272	837	EST	3.73	0.02336	348.91	340	230.15	99.7	92.28	80.27
AA604597	864	EST	#N/A	#N/A	609.98	525.02	371.31	379.26	336.33	167.43
AA417030	940	EST	7.35	0.00555	200.3	168.21	155.63	6.42	7.5	7.77
AA423820	940	EST	#N/A	#N/A	111.38	111.23	120.84	41.9	21.93	44.58
AA425852	958	EST	3.82	0.0395	131.52	95.35	166.76	7.02	5.22	4.75
AA430032	1009	pituitary tumor-transforming 1	10.67	0.00052	377.69	320.44	294.49	26.8	15.31	35.24
AA430673	1017	EST	#N/A	#N/A	45.74	34.15	44.8	-1.21	3.63	15.26
AA433321	1076	EST	#N/A	#N/A	33.93	32.89	11.76	10.79	9.65	7.26
tumor suppressing subtransferable										
AA443941	1085	candidate 1	#N/A	#N/A	97.74	103.38	47.48	31.09	34.9	16.61
AA447223	1100	EST	#N/A	#N/A	31.66	18.91	31.1	4.45	3.74	6.5
AA449431	1124	translation initiation factor IF2	3.76	0.00571	94.41	95.64	54.08	17.4	16.96	5.38
AA645497	1166	EST	4.23	0.00917	342.59	311.81	207.71	66.6	57.29	23.41
AA458882	1205	EST	#N/A	#N/A	93.56	52.28	98.72	24.97	22.52	17.66
AA458934	1208	EST	#N/A	#N/A	33.6	28.19	29.02	7.1	7.91	4.22
AA458342	1271	EST	3.21	0.01378	131.07	109.99	95.4	30.07	33.06	23.97
AA477561	1282	EST	#N/A	#N/A	146.3	127.03	97.99	63.83	76.56	37.87
calcium/calmodulin-dependent protein										
AA481295	1380	kinase kinase 2, beta	3.71	0.0103	180.61	173.47	118.85	46.95	31.51	65.56
RAD51 (S. cerevisiae) homolog (E. coli RecA										
AA608545	1462	homolog)	#N/A	#N/A	70.5	57.51	53.36	7.76	8.92	6.17
AA620553	1504	flap structure-specific endonuclease 1	7.56	0.00101	262.87	232.63	201.66	14.44	4.85	38.03
AA621325	1522	HNK-1 sulfotransferase	#N/A	#N/A	74.57	70.64	46.61	27.23	25.89	16.03
AA621780	1530	CGI-96 protein	#N/A	#N/A	92.23	49.69	11.27	20.93	11.27	19.2
F02807	1781	KIA0038 protein	5.67	0.02064	260.02	219.01	229.96	12.06	16.66	22.24
F04444	1788	EST	4.13	0.00944	371.21	360.5	186.45	119.68	121.27	109.82
F04524	1790	stromalin-like protein 1	#N/A	#N/A	117.77	135.65	69.29	46.56	44.53	33.75
F03876	1797	EST	9.06	0	209.64	201.85	53.21	-22.5	-20.17	37.21
F10161	1811	EST	#N/A	#N/A	50.78	46.73	32.42	15.4	14.78	11.87
F10453	1819	EST	3.64	0.01878	135.07	136.53	85.7	27.28	14.2	54.04
H06449	1838	EST	#N/A	#N/A	180.25	158.18	164.34	50.86	41.2	33.9

Table 8A. (page 3) Genes and ESTs expressed only in HCC2 vs Normal2

H04793	1840	DKF2F343F091 protein	#N/A	#N/A	23.18	20	41.25	-14.45	-20.45	29
H56117	1964	EST	5.81	0.0115	212.68	209.19	157.42	19.24	21.55	16.88
H97012	2058	EST	3.51	0.03505	171.34	138.12	170.68	27.69	38.46	36.08
H06657	2068	EST	#N/A	#N/A	141.17	131.42	69.63	111.2	84.74	128.92
N23319	2453	EST	#N/A	#N/A	70.62	66.39	49.4	13.74	8.56	21.62
N23868	2458	EST	#N/A	#N/A	79.69	81.67	56.06	20.19	11.48	15.06
N48224	2515	EST	#N/A	#N/A	349.73	360.67	164.87	223.16	29.38	8.3
N46595	2527	EST	#N/A	#N/A	85.77	67.62	51.78	28.84	15.82	56.07
N75541	2691	EST	4.43	0.01059	182.83	131.35	183.41	34.1	15.82	56.07
N90273	2712	EST	#N/A	#N/A	105.53	96.01	41.89	68.92	59.56	35.69
N63465	2734	EST	#N/A	#N/A	803.66	710.56	385.5	624.57	694.14	306.11
N39191	2833	KIAA1020 protein	5.18	0.03185	331.72	80.62	125.26	10.1	7.86	16.94
R44793	2858	EST	5.4	0.00329	155.86	121.83	206.15	255.91	249.29	69.09
R44817	2859	EST	#N/A	#N/A	59.46	602.82	206.15	19.1	20.75	23.04
R44896	2861	KIAA0665 gene product	#N/A	#N/A	67.08	57.13	34.18	19.1	2.65	6.94
R64137	2930	EST	#N/A	#N/A	31.25	24.23	21	2.9	2.65	6.94
R71395	2951	EST	4.12	0.03719	166.03	99.42	190.98	14.99	12.28	14.58
R72087	2954	EST	#N/A	#N/A	262.11	302.11	95	201.97	183.76	83.41
R91819	2953	EST	12.81	0.00037	467.79	364.2	426.16	11.34	9.35	36.49
T03749	3047	KIAA1089 protein	4.23	0.00776	103	97.55	74.34	-5.18	-6.08	13.69
T2744	3091	EST	#N/A	#N/A	72.74	73.3	37.84	15.56	12.65	13.18
T29318	3168	EST	5.25	0.00687	136.22	142.37	83.63	-12.41	-6.89	17.59
T88731	3244	EST	#N/A	#N/A	63.59	65.07	20.47	5.75	3.83	11.8
W32176	3497	zinc metalloproteinase, STE24 homolog	#N/A	#N/A	550.53	614.92	234.79	290.18	277.95	129.45
W47388	3533	rab6 GTPase activating protein (GAP and centrosome-associated)	#N/A	#N/A	97.33	71	59.73	43.93	36.52	48.34
W78057	3597	EST	5.53	0.01231	265.23	222.35	192.24	28.21	28.9	34.33
W80763	3605	EST	4.98	0.01026	147.37	138.37	122.38	16.84	15.48	9.22
W90146	3641	EST	3.58	0.00322	82.11	69.02	47.2	9.83	8.63	6.49
Z39299	3884	EST	3.71	0.0036	140.86	127.16	96.62	30.48	25.94	23.34
Z39404	3885	EST	#N/A	#N/A	59.77	56.71	37.29	29.82	30.16	9
Z39462	3889	KIAA0939 protein	4.69	0.0142	137.19	116.11	116.16	-0.86	0.53	7.54
Z38688	3890	EST	#N/A	#N/A	49.85	46.83	42.25	21.38	13.4	29.47
Z38729	3891	EST	#N/A	#N/A	77.67	57.81	60.7	-2.4	-5.01	46.96
Z40556	3918	CGI-96 protein	#N/A	#N/A	176.19	76.96	285.02	59.62	55.07	16.66
AA021549	42	tyrosyl-RNA synthetase	3.17	0.00158	100.01	83.02	44.39	31.74	20.12	36.74
AA026270	56	collagen, type V, alpha 1	#N/A	#N/A	269.96	261.31	191.51	76.95	76.68	43.22
AA055896	135		10.87	0.00907	414.16	454.82	330.75	-3.14	-5.8	33.86

Table 8A. (page 4) Genes and ESTs expressed only in HCC2 vs Normal2

225	AA112979	vacuole related kinase 1	#N/A	#N/A	37.93	31.05	16.86	8.54	8.02	2.59
286	AA134063	EST	#N/A	#N/A	25.71	13.84	34.35	-5.21	-6.17	6
327	AA150053	EST	#N/A	#N/A	270.14	248.87	144.92	101.87	88.37	73.73
428	AA206914	EST	#N/A	#N/A	89.35	94.1	46.27	66.34	69.2	26.35
525	AA243133	serine/threonine kinase 15	7.03	0.00005	147.5	162.28	43.03	9.69	12.1	9.8
527	AA243466	EST	#N/A	#N/A	61.94	42.38	37.6	13.66	13.42	9.63
531	AA243598	EST	#N/A	#N/A	60.15	62.79	32.67	11.41	13.18	13.43
551	AA252147	EST	#N/A	#N/A	95.91	56.69	122.31	3.65	-0.82	22.5
570	AA255666	EST	#N/A	#N/A	64.28	50.15	52.25	16.18	14.38	13.17
629	AA276607	EST	#N/A	#N/A	184.99	102.43	288.71	8.06	7.61	23.78
635	AA276943	EST	#N/A	#N/A	137.05	63.54	232.2	-4.7	-5.33	11.18
691	AA290594	EST	#N/A	#N/A	58.19	56.31	23.84	21.4	16.8	23.96
693	AA290776	EST	#N/A	#N/A	524.07	516.6	88.67	441.83	355.04	245.84
712	AA292765	ZW10 interactor	7.24	0.00498	202.52	192.15	142.78	11.33	18.29	13.27
801	AA389808	EST	20.72	0.00114	629.56	433.87	551.97	-174.29	104.42	104.42
855	AA405098	EST	6.09	0.01224	221.56	130.95	237.73	-4.35	-8.44	30.78
878	AA40542	EST	#N/A	#N/A	179.08	84.98	218.93	-1.99	1.49	12.75
1042	AA435738	EST	#N/A	#N/A	80.97	82	30.96	50.41	51.29	33.08
1077	AA433985	EST	#N/A	#N/A	200.3	136.72	140.42	118.18	97.38	102.71
		Ts translation elongation factor, mitochondrial								
1092	AA446596	EST	#N/A	#N/A	103.35	97.42	153.31	72.58	70.64	154.24
1107	AA447777	EST	#N/A	#N/A	258.37	212.57	171.93	133.78	116.63	56.34
1136	AA463757	EST	#N/A	#N/A	128.41	118.8	40.54	85.66	70.33	40.45
1211	AA469254	EST	6.22	0.00001	308.74	306.36	112.62	51.84	43.51	37.57
1220	AA469673	chromosome-associated polypeptide C	#N/A	#N/A	32.11	31.27	15.41	8.91	6.74	8.86
1282	AA476333	EST	#N/A	#N/A	52.26	34.54	55.5	9.04	14.67	24.04
1405	AA486983	EST	#N/A	#N/A	91.01	73.62	80.93	24.83	12.83	29.07
1415	AA504512	KIA00943 protein	5.72	0.00384	316.32	322.55	180.22	65.48	28.37	93.94
1479	AA609132	EST	#N/A	#N/A	67.33	42.61	65.11	29.14	23.25	29.14
1484	AA609942	EST	#N/A	#N/A	88.98	66.8	71.4	15.89	14.41	25.58
1777	F02254	Fas-activated serine/threonine kinase	5.1	0.00329	376.8	341.06	145.28	90	72.97	135.39
1937	H48459	KIA00186 gene product	3.1	0.02325	71.21	49.95	87.89	-29.4	-30.17	6.19
2018	H87790	EST	#N/A	#N/A	284.91	287.54	145.66	466.07	547.34	192.71
2493	N34017	EST	#N/A	#N/A	39.35	37.49	4.67	5.47	7.05	10.01
2501	N35493	EST	#N/A	#N/A	73.6	80.62	31.24	19.03	18.75	17
2600	N63604	EST	#N/A	#N/A	47.18	32.72	35	162.22	137.95	90.9
2601	N63646	EST	#N/A	#N/A	479.9	367.24	240.56	116.34	128.47	50.14
2641	N69014	SRY (sex-determining region Y)-box 22	#N/A	#N/A	193.21	174.83	48.23	3.69	-2.94	21.49
2650	N68879	drabrin 1	3.15	0.01659	88.78	84.86	61.76			

Table 8A. (page 5) Genes and ESTs expressed only in HCC2 vs Normal2

N69983	2651	EST	#N/A	#N/A	93.25	96.86	48.82	76.2	93.14	54.92
N70330	2655	EST	#N/A	#N/A	108.39	69.74	105.54	33.78	27.33	16.47
N74010	2663	EST	#N/A	#N/A	22.65	25.34	10.26	2.34	1.47	10.41
N8670	2708	EST	#N/A	#N/A	65.03	98.18	66.58	3.16	-1.81	43.32
N89300	2726	EST	#N/A	#N/A	77.68	84.15	45.06	17.65	18.66	10.81
N95944	2748	EST	3.46	0.00104	211.02	200.61	102.49	60.05	50.12	29.73
R97116	3001	EST	#N/A	#N/A	143.07	152.08	86.96	53.41	58.26	38.91
T16226	3065	EST	7.23	0.00119	323.53	312.1	209.59	33.87	22.78	38.68
T32108	3102	EST	#N/A	#N/A	180.81	165.53	68.41	148.09	152.11	92.06
W15275	3471	EST	#N/A	#N/A	33.62	31.78	35.23	30.09	24.85	43.25
W31906	3486	secretagogin	6.62	0.00926	474.89	174.52	605.68	42.41	30.95	47.65
W46286	3523	EST	3.68	0.00311	154.73	166.08	72.64	23.51	22.85	61.69
W60097	3553	DEADH (Asp-Glu-Ala-Asp/His) box polypeptide, Y chromosome	4.82	0.04903	235.42	265.15	185.13	35.34	11.72	84.5
W80852	3606	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	6.37	0.00005	184.61	159.98	100.74	11.16	11.92	36.06
AA046745	113	EST	3.33	0.00648	73.04	72.71	48.97	10.59	12.02	7.33
AA052941	121	EST	3.36	0.00088	100.81	106.86	44.56	25.66	25.65	13.62
AA058589	144	EST	#N/A	#N/A	44.63	51.66	34.1	-9.37	-10.9	8.66
AA126561	249	stanniocalcin	#N/A	#N/A	51.44	44.19	31.6	7.16	7.73	8.55
AA146849	313	target of myb1 (chicken) homolog	4.72	0.00326	398.05	341.23	244.73	98.86	106.97	86.19
AA149889	326	neighbor of A-kinase anchoring protein 95	8.55	0.00224	240.81	312.86	143.89	-0.24	8.25	29.83
AA283711	689	ubiquitin carrier protein	#N/A	#N/A	382.91	380.33	210.95	221.7	203.51	93.54
AA284153	673	EST	#N/A	#N/A	117.88	127.81	72.86	53.98	43.58	32.17
AA335191	741	creatine kinase, brain	6.47	0.1462	512.64	199.99	673.92	43.84	33.21	43.52
AA402642	840	TNF receptor-associated factor 1	#N/A	#N/A	137.67	59.13	211.07	35.93	19.15	31.32
AA427460	972	ATP-binding cassette, sub-family F (GCN20), member 2	#N/A	#N/A	190.92	187.57	78.83	92.5	83.63	49.3
AA431429	1021	EST	#N/A	#N/A	25.39	21.98	9.32	5.32	4.23	4.43
AA443316	1075	v-Haas Harvey rat sarcoma viral oncogene homolog	3.4	0.00133	138.89	124.06	70.22	40.07	41.12	32.54
AA476260	1280	EST	#N/A	#N/A	61.23	69.49	40.45	-32.66	-15.85	56.91
AA487058	1352	ubiquitin-conjugating enzyme E2L 3	#N/A	#N/A	245.56	225.48	137.4	315.7	232.85	213.47
AA521149	1420	EST	3.33	0.00211	113.43	106.74	60.79	28.44	29.54	18.61
AA592244	1448	KU04530 protein	#N/A	#N/A	53.83	48.84	25.7	7.71	6.06	7.11
AA598850	1457	EST	3.55	0.03215	122.91	75.32	123.52	-1.23	-2.93	31.86
AA621530	1526	EST	3.26	0.00298	167.73	75.43	40.46	12.46	15.12	13.43
AA621644	1528	EST	#N/A	#N/A	83.13	86.29	43.19	71.19	66.84	29.87

Table 8A. (page 6) Genes and ESTs expressed only in HCC2 vs Normal2

C15078	1573	EST	#N/A	#N/A	121.71	98.25	100.16	28.22	31.14	60.2
D80710	1734	integral type I protein	3.17	0.04549	153.76	74.74	166.28	22.95	28.29	24.59
D90948	1738	EST	#N/A	#N/A	70.05	77.71	32.11	43.53	43.53	17.46
D10408	1739	EST	#N/A	#N/A	150.18	149.32	51.77	86.08	85.08	39.11
F04320	1786	replication factor C (activator 1) 4 (37kD)	6.29	0.00042	156.76	122.53	109.02	11.92	17.26	9.79
H14617	1884	EST	#N/A	#N/A	143.86	147.93	66.03	133.9	150.35	53.38
H28763	1907	EST	#N/A	#N/A	408.05	321.65	219.8	409.85	391.85	155.84
H67194	1984	EST	3.67	0.00327	215.75	176.78	110.42	65.56	54	51.09
H78211	2001	EST	7.5	0.02674	285.43	307.06	261.02	-115.95	-129.18	70.22
H95596	2050	EST	#N/A	#N/A	138.58	143.31	26.27	74.11	89.04	126.61
H96870	2082	EST	#N/A	#N/A	92.81	94.93	33.96	53.96	61.17	29.86
N62487	2590	EST	#N/A	#N/A	56.6	32.26	33.75	13.68	16.02	6.53
N67815	2626	EST	3.84	0.00439	351.55	356.17	99.35	104.07	151.77	86.01
N69094	2642	EST	3.11	0.00694	233.32	208.16	169.31	72.13	67.7	49.99
N73278	2671	EST	#N/A	#N/A	77.72	71.59	49.4	25.36	19.22	26.85
R06251	2763	tumor protein D52-like 2	4.88	0.03087	468.88	341.39	390.43	74.25	66.72	64.11
R15740	2790	carbohydrate (keratan sulfate Gal-6)	3.35	0.00288	117.43	100.03	64.73	31.77	21.3	33.53
R24507	2801	sulfotransferase 1	#N/A	#N/A	31.61	16.41	30.69	3	3.45	5.62
R27286	2806	EST	3.41	0.00309	77.08	67.51	39.42	8.27	11.07	7.26
R30931	2809	EST	#N/A	#N/A	54.19	57.09	29.34	17.58	13.67	14.21
R45964	2866	EST	6.48	0.00358	730.52	596.82	420.14	145.88	160.69	163.03
R70253	2944	EST	3.38	0.03125	98.7	88.01	87.93	-9.59	-0.47	30.83
R72886	2955	KIA0402Z protein	5.5	0.00991	564.05	473.4	207.71	106.66	121.18	116.07
R69924	3000	EST	7.04	0.00012	336.8	329	106.3	51.01	52.94	54.09
T15852	3061	EST	5.21	0.00642	168.18	134.42	120.18	-7.59	7.36	51.46
T16883	3073	cleavage and polyadenylation specific factor	4.23	0.0106	262.26	268.2	155.86	65.64	45.67	74.28
T33865	3109	RNA (guanine-7-) methyltransferase	#N/A	#N/A	29.73	32.86	22.11	-0.26	2.33	8.15
T66935	3178	EST	3.01	0.00123	181.34	189.67	61.49	66.8	52.94	42.32
T90957	3258	EST	6.46	0.00613	228.11	188.71	174.46	7.13	15.37	37.2
W45320	3520	KRAB-associated protein 1	10.05	0.00002	365.22	345.46	124.13	-2.52	112.32	112.32
AFO08041	1549	death-associated protein 6	#N/A	#N/A	174.22	170.16	37.64	74.91	58.55	50.31
D00596	1580	thymidylate synthase	5.58	0.0098	200.17	128.11	128.11	20.16	20.43	12.43
D38491	1653	KIA04117 protein	#N/A	#N/A	47.67	52.03	21.01	20.77	20.88	17.43
D63486	1712	KIA0415Z gene product	3.56	0.00663	277.42	248.24	98.25	84.6	95.61	45.48
D84557	1749	mitochondrion maintenance deficient (mis5, S. pombe) 6	3.97	0.0017	184.48	132.11	125.74	37.22	43.12	28.15
D86957	1754	KIA0202 protein	3.08	0.02949	91.22	73.14	86.89	14.7	12.7	6.29

Table 8A. (page 7) Genes and ESTs expressed only in HCC2 vs Normal2

D68972	1785	KIA0218 gene product	#/A	#/A	68.56	66.54	32.32	34.58	32.05	21.82
D90097	1768	amylase, alpha 2B; pancreatic	#/A	#/A	41.19	37.49	12.85	6.55	11.44	15.06
L29218	2190	CDC-like kinase 2	3.82	0.00035	155.42	142.58	76.28	35.11	41.27	26.41
L38966	2208	RNA-binding protein (autoantigenic)	#/A	#/A	127.32	114.91	62.34	60.18	58.55	24.77
M11749	2240	Thy-1 cell surface antigen	#/A	#/A	83.1	65.86	64.52	26.05	28.95	20.56
M2753	2308	cyclin B1	#/A	#/A	44.14	30.96	40.36	-0.8	3.03	15.35
M32334	2333	Intercellular adhesion molecule 2	#/A	#/A	95.04	92.33	67.51	42.19	41.31	17.33
M5210	2353	laminin, gamma 1 (formerly LAMB2)	3.47	0.02551	137.63	115.85	102.71	27.07	29.17	12.36
M61916	2372	laminin, beta 1	3.18	0.01171	75.1	67.4	61.41	7.19	7.98	8.99
M87572	2411	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)	5.15	0.02881	218.51	248.21	192.98	8.67	20.63	39.03
M87339	2414	replication factor C (activator 1) 4 (37KD)	4.59	0.00116	110.39	82.51	79.29	4.26	9.92	16.79
M94250	2425	midkine (neurite growth-promoting factor 2)	9.86	0.02104	690.32	193.74	1414.43	-155.4	-176.43	101.89
S78187	3030	cytosolic ovarian carcinoma antigen 1	#/A	#/A	29.33	29.21	18.34	11.53	12.85	7.55
S78187	3035	cell division cycle 25B	4.83	0.00547	143.52	115.3	109.13	3.36	-1.2	26.9
S78569	3036	laminin, alpha 4	#/A	#/A	25.79	26.91	21.66	6.3	7.6	9.38
U38847	3356	TAR (HIV) RNA-binding protein 1	#/A	#/A	83.43	70.23	66.3	15.7	17.43	10.2
U51477	3383	diacylglycerol kinase, zeta (104kD)	#/A	#/A	73.85	61.64	31.81	36.35	36.29	23.02
U59321	3397	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 17 (72kD)	3.12	0.02469	84.5	98.2	70.13	3.1	-1.83	19.73
U69851	3405	gamma-aminobutyric acid (GABA) A receptor, epsilon	3.55	0.0045	97.79	83.66	61.79	16.58	14.81	11.96
U93237	3461	multiple endocrine neoplasia I	#/A	#/A	84.78	93.3	24.25	45.63	45.39	17.86
X92106	3819	bleomycin hydrolase	#/A	#/A	56.15	48.46	36.93	4.73	3.77	11.78
X92762	3825	telazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fibroelastosis 2; Barth syndrome)	#/A	#/A	82.96	83.94	15.05	23.4	33.5	24.15
Y09216	3853	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	#/A	#/A	47.87	47.61	18.08	18.99	22.48	13.31
M69013	2390	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)	#/A	#/A	86.89	70.61	47.65	38.18	47.33	23.06
AD000092	1542	RAD23 (S. cerevisiae) homolog A	#/A	#/A	97.12	98.23	25.66	37.18	32.35	28.04
X04854	3678	small nuclear ribonucleoprotein TMD polypeptide (RNP antigen)	#/A	#/A	122.45	134.9	49.51	42.22	41.24	17.18
M31211	2326	myosin, light polypeptide 1, alkali, skeletal, fast	#/A	#/A	60.22	49.75	54.83	-2.19	-4.38	11.56
U50648	3378	protein kinase, interferon-inducible double stranded RNA dependent	#/A	#/A	214.34	192.86	122.38	105.38	92.58	43.12

Table 8A. (page 8) Genes and ESTs expressed only in HCC2 vs Normal2

M74715	2394	iduronidase, alpha-L-	#/A	#/A	122.69	121.95	72.56	41.88	24.48	43.99
U41767	3359	a disintegrin and metalloproteinase domain	#/A	#/A	196.76	147.11	113.93	83.03	66.93	68.33
M12125	2241	15 (metargidin)	7.13	0.0004	174.25	183.97	95.24	13.01	16.33	11.54
U20499	3320	tropomyosin 2 (beta)	#/A	#/A	141.35	126.33	135.57	48.34	54.37	24.59
		sulfotransferase family 1A, phenol-								
		preferring, member 3								

Table 8B. (page 1) Genes and ESTs expressed only in Normal2 vs HCC2

Fragment Name	SEQ ID :	Known Gene Name	hcc fold change	p value	hcc sample set 2: Mean	hcc sample set 2: Median	hcc sample Dev	normal set 2: Mean	normal set 2: Median	normal set 2: Std Dev
H63667	1977	EST	3.84	0.00133	37.14	35.15	26.61	155.38	149.31	70.77
H72050	1984	EST	#N/A	#N/A	78.97	93.74	40.9	122	125	42.24
M30185	2321	cholesteryl ester transfer protein, plasma	3.82	0.00131	-15.96	-12.63	23.86	93.07	86.04	61.35
N9542	2746	orosomucoid 1	3.53	0.00807	61.09	67.97	39.3	235.06	187.68	146.11
T68083	3184	short-chain dehydrogenase/reductase 1	#N/A	#N/A	96.34	59.71	104.53	263.22	280.22	136.48
		glucokinase (hexokinase 4) regulatory protein	4.6	0.01693	65.99	51.37	146.72	305.23	239.52	155.98
Z48475	3940	EST	4.77	0.00023	-0.57	3.88	23.81	113.78	88.54	66.41
AA045747	114	EST	#N/A	#N/A	3.66	1.48	10.67	49.37	26.82	45.2
AA253410	564	mannose-6-phosphate utilization defect 1	#N/A	#N/A	95.74	105.86	45.46	170.88	165.02	41.87
AA267796	650	KIAA0167 gene product	6.99	0.00023	16.67	14.05	35.71	248.24	201.66	228.64
AA404248	847	EST	#N/A	#N/A	24.05	30.99	15.63	40.92	35.06	17.49
AA448002	1113	putative type II membrane protein	14.14	0	39.9	38.99	13.33	594.13	528.53	282.96
AA487576	1357	EST	#N/A	#N/A	11.67	2.42	27.75	26.05	25.27	11.13
AA821235	1517	EST	#N/A	#N/A	65.79	68.63	35.33	114.75	113.36	65.35
F09979	1809	EST	#N/A	#N/A	61.21	6.31	128.69	226.47	116.41	288.21
H57056	1953	EST	#N/A	#N/A	-1.79	-7.37	11.38	35.07	38.32	17.88
H68673	1959	EST	15.49	0.00002	34.96	26.37	38.53	652.47	677.55	376.36
H69136	1962	EST	6.63	0.00033	33.12	21.17	42.92	250.23	229.94	129.12
H87765	2017	KIAA0626 gene product	3.94	0.00123	10.11	10.07	4.23	94.26	93.76	86.64
N23404	2449	EST	3.44	0.02267	96.69	35.62	73.26	193.63	130.09	162.83
N24919	2498	EST	#N/A	#N/A	19.32	19.72	14.37	52.96	44.23	24.23
N54904	2599	EST	#N/A	#N/A	45.27	14.34	81.45	133.06	119.1	109.95
N65959	2611	EST	3.38	0.00785	37.8	28.94	31.45	142.87	149.26	79.26
		collectin sub-family member 10 (C-type lectin)	#N/A	#N/A	39.43	35.17	24.21	71.81	62.09	43.57
N74824	2687	EST	3.45	0.03074	64.12	36.33	102.03	186.87	204.61	113.19
R08053	2782	EST	7.05	0.01287	35.12	13.76	100.6	462.31	374.67	450.91
R73916	2960	EST	16.61	0	-1.02	1.06	24.36	390.04	386.76	164.41
T58756	3155	EST	#N/A	#N/A	37.25	31.7	27.5	52.69	41.31	21.1
W48660	3534	EST	#N/A	#N/A	21.51	1.31	56.9	59.32	53.19	41.68
W90018	3639	EST	#N/A	#N/A	26.95	20.06	32.19	187.55	154.99	92.13
AA010205	23	potassium voltage-gated channel, shaker-related subfamily, beta member 1,	5.71	0.00014	26.95	20.06	32.19	187.55	154.99	92.13
AA013055	33	EST	#N/A	#N/A	5.12	7.9	12.98	16.56	15.83	8.24

Table 8B. (page 2) Genes and ESTs expressed only in Normal2 vs HCC2

AA074885	161	macrophage receptor with collagenous structure	10.88	0.00087	35.67	58.01	44.34	652.03	761.74	300.57
AA099225	206	EST	6.59	0.00064	10.9	9.75	15.11	212.68	163.45	194.31
AA282541	661	EST	#/NA	#/NA	17.21	11.75	13.38	31.31	29.9	13.53
R99591	3015	CD5 antigen-like (scavenger receptor cysteine rich family)	7.41	0.00043	124.14	139.76	50.35	1035.39	904.92	691.83
T68711	3187	EST	35.98	0.0003	29.03	-33.95	176.15	1388.67	1074.67	890.91
W78093	3598	X-proly aminopeptidase (aminopeptidase P) 2, membrane-bound	#/NA	#/NA	408.58	397.88	102.27	518.77	518.8	211.32
W65890	3620	EST	#/NA	#/NA	60.91	60.47	23.73	70.98	66.52	24.66
AA285053	681	EST	5	0.00718	36.49	20.15	49.24	238.16	242.27	169.12
AA460661	1229	EST	5.46	0.00151	20.05	8.57	39.04	184.62	198.21	108.17
F10380	1816	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase)	#/NA	#/NA	43.64	47.09	18.15	106.49	93.71	83.35
N67105	2623	EST	4.69	0.00164	12.46	10.45	12.64	143.36	102.9	121.4
N69114	2843	nuclear receptor subfamily 1, group 1, member 3	#/NA	#/NA	12.69	5.95	15.01	72.29	73.28	57.34
M63967	2378	aldehyde dehydrogenase 5	3.68	0.00274	40.43	30.04	29.05	164.38	178.74	87.39
X54380	3727	pregnancy-zone protein	7.71	0.00069	15.11	8.07	27.07	274.41	255.4	203.47
Z49269	3942	small inducible cytokine subfamily A (Cys-Cys), member 14	7.24	0.01047	138.63	66.95	201.93	526.13	532.29	166.67
M10843	2234	metallothionein 1F (functional)	6.23	0.00007	35.67	28.76	22.4	217.65	186.71	86.73

Table 9A. (page 1) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

Fragment Name	SEQ ID :	Known Gene Name	fold change in metas	p value	metastatic: Mean	metastatic: Median	metastatic: Std Dev	normal set 2: Mean	normal set 2: Median	normal set 2: Std Dev
		diphtheria toxin resistance protein required for diphtheramide biosynthesis (Saccharomyces)-like								
AA009913	21	2	#N/A	#N/A	69.53	81.03	27.69	16.81	18.22	13.51
AA127712	255	EST	6.59	0.03706	332.45	208.85	298.68	-29.54	-28.71	104.37
AA233330	592	adaptor-related protein complex 1, gamma 1 subunit	3.87	0.00708	219.95	186.12	141.92	47.32	51.59	30.28
AA291466	700	EST	3.96	0.03633	1898.4	1273.75	1481.84	671.21	509.58	629.13
AA235619	722	EST	8	0.01793	230.14	251.43	146.89	-14.93	-20.8	19.72
AA372630	769	differentially expressed in hematopoietic lineages	25.49	0.01743	2094.32	436.62	3873.61	6.67	4.87	7.16
AA394184	774	DKFZP568B0519 protein	3.38	0.01209	476.17	411.64	148.86	181.02	188.54	135.4
AA427468	973	claudin 4	84.43	0	5646.4	5344.98	1581.19	72.58	64.85	87.74
AA454908	1171	KIA0144 gene product	9.3	0.00539	320.03	253.32	238.5	-33.7	-46.73	73.56
AB002304	1534	KIAA0306 protein	#N/A	#N/A	594.5	621.94	136.64	313.99	298.86	88.6
AB002349	1537	KIAA0351 gene product	#N/A	#N/A	65.63	52.11	32.26	49.37	46.52	37.93
AF003521	1545	jagged 2	11.26	0.00008	426	330.95	309.91	15.48	-3.6	91.81
C00808	1553	EST	#N/A	#N/A	122.57	118.32	53.36	91.65	87.87	32.51
C14228	1567	EST	#N/A	#N/A	39.93	33.15	13.59	-0.51	2.85	8.61
D83783	1748	thymidine repeat containing 11 (THR-associated protein, 230 kDa subunit)	6.55	0.00176	236.64	156.39	216.64	23.23	19.65	27.84
D88154	1766	villin-like	4.18	0.00051	117.8	129.16	47.7	23.85	18.99	17.79
H42866	1929	gamma-aminobutyric acid (GABA) B receptor, 1	5.02	0.01972	377.04	222.91	315.96	57.02	63.58	24.25
H53657	1945	adenylate cyclase 3	3.96	0.0045	140.07	111.99	74.77	31.33	31.74	15.29
L08044	2149	tretol factor 3 (intestinal)	21.42	0.01674	2956.22	1618.2	3127.19	107.82	58.55	184.16
M94891	2428	pregnancy specific beta-1-glycoprotein	#N/A	#N/A	221.09	197.74	80.32	178.23	166.98	61.33
R56678	2907	EST	3.81	0.02242	98.37	78.38	75.74	2.67	5	5.82
R69700	2942	EST	6.71	0.0021	387.34	393.81	94.86	79.33	57.85	129.97
R76363	2961	EST	#N/A	#N/A	47.81	38.04	24.76	12.67	16.94	13.17
U75968	3422	DEADH (Asp-Glu-Ala-Asp-His) box polypeptide 11 (S. cerevisiae CHL1-like helicase)	#N/A	#N/A	195.48	155.37	89.8	115.5	102.24	77.72
W83348	3560	HSPC113 protein	10.89	0.01085	555.52	492.63	563.86	26.59	29.26	21.03
AA007160	16	EST	6	0.01035	171.32	175.07	138.03	9.1	8.6	12.54
AA024462	45	DKFZP434G032 protein	#N/A	#N/A	207.37	116.58	230.63	-1.3	-3.13	13.6

Table 9A. (page 2) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

AA040465	95	EST	3.25	0.00146	161.91	125.35	72.19	47.15	45.53	5.48
AA053660	128	EST	15.96	0.00003	1573.49	1340	820.5	95.24	79.97	42.99
AA1100718	212	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	50.88	0.00081	1405.2	1264.79	1137.97	-17.03	-22.23	16.43
AA115979	232	mitotic spindle coiled-coil related protein	#N/A	#N/A	74.58	89.38	66.52	22.91	13.67	29.42
AA134968	289	EST	12.11	0.00079	322.34	208.47	298.66	10.04	7.96	15.53
AA179787	360	polyglutamine binding protein 1	6.44	0.00206	191.33	171.71	138.9	-11.56	14.26	42.46
AA227926	460	EST	6.81	0.01701	228.91	120.1	243.92	16.24	-12.41	6.86
AA235707	500	EST	9.17	0.00005	189.42	161.88	57.05	-18.19	-19.06	14.8
AA236533	514	ecotropic viral integration site 1	4.01	0.02382	105.15	76.05	78.18	-16.45	-14.04	8.52
AA243173	526	EST	8.75	0.00003	384.86	482.53	162.08	41.66	40.74	27.31
AA262943	611	EST	13.42	0.02234	430.7	207.29	511.01	-1.08	-6.93	19.06
AA281214	643	neuroblastoma-amplified protein	#N/A	#N/A	130.98	133.63	68.42	69.89	53.91	39.31
AA282505	659	EST	#N/A	#N/A	461.54	478.83	622.39	-41.46	-17	98.17
AA292931	715	EST	3.97	0.00067	230.65	260.43	79.42	57.32	61.89	18.62
AA327018	768	EST	14.3	0.00178	363.44	220.03	261.04	-2.44	-3.09	8.36
AA384121	778	laminin receptor 1 (67kD, ribosomal protein SA)	23.78	0.00699	788.51	677.33	612.74	0.21	-8.38	31.59
AA399226	803	tight junction protein 3 (zona occludens 3)	3.59	0.02002	89.54	78.97	63.98	-5.01	-6.48	11.33
AA401965	833	tumor suppressor deleted in oral cancer-related 1	#N/A	#N/A	384.12	271.95	444.06	120.58	93.29	109.41
AA404597	854	EST	#N/A	#N/A	624.37	495.56	274.8	379.26	336.33	167.43
AA410469	883	EST	6.3	0.00103	337.03	250.11	264.1	50.51	42.79	60.18
AA419217	923	DKFZF598E1422 protein	6.77	0.00045	278.53	215.37	172.25	36.93	36.7	21.88
AA424881	949	EST	6.3	0.00556	158.13	155.45	82.63	-46.85	-22.15	20.49
AA425862	958	EST	4.8	0.03874	149.6	125.7	128.03	7.02	5.22	4.75
AA430674	1018	EST	15.11	0.02293	454.82	306.15	376.36	-71.57	-42.03	59.56
AA442763	1072	cyclin B2	5.09	0.02168	136.16	109.91	91.52	-14.64	-15.1	13.08
AA443341	1085	tumor suppressing subtransferrable candidate 1	3.57	0.01685	137.02	136.22	83.35	31.09	34.9	16.61
AA449456	1126	EST	6.29	0.00087	847.4	775.81	377.99	160.93	178.76	112.71
AA451877	1138	EST	8.63	0.00489	239.55	157.3	244.02	-27.28	-27.59	18.28
AA454597	1166	EST	3.63	0.0067	268.15	274.94	167.72	66.6	57.29	23.41
AA457235	1200	EST	#N/A	#N/A	481.26	138.32	573.73	11.06	17.32	15.26
AA460686	1231	EST	#N/A	#N/A	56.19	58.13	26.29	-24.55	-17.23	20.98
AA463981	1251	EST	24.79	0.00066	672.22	311.71	641.54	-22.02	-20.04	16.5
AA464962	1264	EST	#N/A	#N/A	61.02	58.4	30.98	20.99	14.37	19.64
AA465342	1271	EST	#N/A	#N/A	113.36	100.15	87.62	30.07	33.06	23.97

Table 9A. (page 3) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

A445660	1273	LIM domain binding 1	#/NA	#/NA	171.26	118.15	103.39	124.59	105.93	56.71
		tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane protein)								
A4470749	1286	EST	#/NA	#/NA	53.23	44.04	18.16	25.5	29.62	11.96
A447561	1292	EST	#/NA	#/NA	160.87	104.95	133.7	63.83	76.56	37.87
A4482546	1336	KIAA124 protein	4.41	0.00604	140.73	113.91	140.73	38.26	30.26	32.72
A4609795	1492	EST	#/NA	#/NA	74.38	34	77.76	-41.44	-45.5	28.82
A4621277	1520	EST	3.81	0.00194	81.18	74.81	30.84	-0.15	1.98	12.84
		procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II								
F09788	1808	EST	4.14	0.00003	104.92	112.31	27.67	19.92	20.29	13.83
H0281	1863	EST	6	0.00866	147.11	187.25	71.67	-2.97	-0.54	11.7
H58617	1964	EST	3.3	0.04588	116.07	71.39	101	19.24	21.85	16.88
H68597	2068	EST	#/NA	#/NA	175.15	192.17	32.25	111.2	84.74	128.92
N22015	2447	EST	46.51	0.00025	1225.51	867.65	1106.3	-5.3	-8.4	16.62
N33376	2500	EST	#/NA	#/NA	39.01	35.99	19.81	28.53	29.44	8.2
N63165	2597	EST	#/NA	#/NA	68.04	62.1	44.7	30.07	26.23	13.84
N64616	2610	EST	3.11	0.0074	68.89	75.8	32.12	-0.83	9.77	28.69
N68551	2620	EST	5.54	0.02442	451.16	432.45	381.81	59.83	75.27	32.75
		solite carrier family 11 (proton-coupled divalent metal ion transporters), member 2								
N72116	2667	EST	9.01	0.00051	338.43	314.06	196.66	32.57	29.68	20.1
N92659	2720	EST	#/NA	#/NA	31.19	37.23	14.14	5.91	4.05	5.63
R06866	2773	EST	5.18	0.00187	148.48	114.86	102.01	18.26	15.16	17.11
R26744	2803	midline 1 (Opitz/BBB syndrome)	4.32	0.00532	112.54	90	76.53	-0.2	-3.06	24.42
R36109	2822	EST	#/NA	#/NA	47.54	48.43	19.9	25.67	20.25	34.73
		protein similar to E.coli ynfag and R. capsulatus mfr3								
R38511	2831	mfr3	5.19	0.00015	131.5	147.54	44.02	21.3	23.75	9.22
R38191	2833	KIAA1020 protein	4.69	0.00456	130.93	145.31	62.13	17.46	18.33	16.04
R40057	2838	promitin (mouse) like 1	#/NA	#/NA	47.6	46.28	36.57	0.83	-0.8	7.91
R44817	2859	EST	#/NA	#/NA	600.1	550.42	308.14	255.91	249.29	69.09
		Fc fragment of IgG, low affinity IIa, receptor for (CD16)								
R49047	2877	ubiquitin specific protease 7 (herpes virus-associated)	#/NA	#/NA	44.49	36.71	14.37	15.43	14.16	14.13
R54935	2902	EST	#/NA	#/NA	75.76	81.15	31.57	17.77	14	18.86
R55470	2903	EST	3.59	0.00515	256.38	225.69	138.22	75.29	73.42	53.04
R59093	2910	EST	#/NA	#/NA	33.48	73.58	12.26	10.21	10.21	7.73
R63925	2928	EST	#/NA	#/NA	57.79	60.93	15.36	49.82	52.73	13.77
R71395	2951	EST	10.42	0.00422	318.75	274.93	227.75	14.99	12.28	14.58
R82866	2976	EST	#/NA	#/NA	53.4	54.53	25.44	48.68	39.83	33.9

Table 9A. (page 4) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

R91819	2983	EST	8.85	0.00009	263.33	219.91	135.67	11.34	9.35	36.49
T03438	3042	EST	8.18	0.00032	300.09	229.6	218.02	31.03	28.88	15.86
T03541	3044	EST	#N/A	#N/A	455.39	418.21	288.45	155.27	155.62	50.93
T25744	3091	EST	#N/A	#N/A	79.78	58.72	52.01	15.56	12.85	13.18
T53404	3142	EST	10.68	0.00582	654.13	475.25	687.49	48.3	0.6	93.06
T91116	3251	EST	4.01	0.02721	133.54	61.72	126.12	16.62	11.42	13.64
T98060	3262	EST	#N/A	#N/A	910.76	225.75	1282.67	67.92	70.44	91.72
W62695	3466	EST	#N/A	#N/A	129.58	99.52	100.52	30.69	33.06	16.14
W67251	3567	EST	6.13	0.01463	204.71	182.17	127.82	21.77	23.88	12.17
W78057	3597	EST	9.06	0.0034	397.29	374.78	305.93	29.21	29.9	34.33
W80146	3641	EST	6.23	0.01558	170.66	147.78	126.32	9.93	8.63	6.49
W82449	3649	EST	31.67	0.00011	715.17	491.5	459.71	-40.13	-40.74	17.76
Z38191	3888	EST	8.84	0.00011	442.36	371.86	228.18	46.96	49.3	33.31
Z39569	3906	EST	#N/A	#N/A	166.55	125.78	217.77	-9.57	-12.15	17.32
Z41415	3930	EST	#N/A	#N/A	198.73	88.96	271.2	10.38	6.64	11.47
AA026030	53	EST	11.01	0.01649	566.65	284.32	828.49	3.02	4.66	40.87
AA026270	56	EST	#N/A	#N/A	201.1	224.51	50.82	76.85	76.68	45.22
AA043944	100	EST	#N/A	#N/A	52.9	29.13	46.43	3.89	3.15	7.26
AA053102	125	EST	26.63	0.01745	1053.43	972.71	785.51	4.92	4.94	9.04
AA053248	126	EST	7.01	0.00003	2234.44	1595.15	1053.3	341.06	304.8	189.89
AA055986	135	EST	18.16	0.00146	540.67	538.43	382	-3.14	-5.8	33.88
AA094343	178	EST	#N/A	#N/A	133.86	126.19	19.99	84.58	76.82	41.45
AA112879	225	EST	#N/A	#N/A	25.08	24.98	13.02	8.54	8.02	2.59
AA126041	244	EST	#N/A	#N/A	42.91	33.83	16.2	26.42	28.92	9.81
AA128553	260	amyloid beta (A4) precursor protein (protease resistant), Alzheimer disease	#N/A	#N/A	87.35	102.82	24.17	114.91	108.16	30.28
AA130053	327	EST	3.71	0.00102	303.61	304.16	82.46	101.87	88.37	73.73
AA151428	335	matrix metalloproteinase 23B	7.15	0.00056	174.77	131.66	104.51	3.23	10.67	24.39
AA159243	340	selfin protease, umbilical endothellum	41.44	0.00139	1255.4	547.15	1189.26	9.32	11.44	9.39
AA159525	354	EST	49.39	0.00062	1309.05	1107.08	965.67	-32.72	-28.32	20.11
AA161043	356	tetraspan 1	18.8	0.00015	1477.19	932.02	1467.59	70.82	58.62	42.88
AA171760	367	EST	17.86	0	645.43	578.38	312.37	28.03	16.24	57.21
AA179845	381	EST	5.77	0.01414	280.06	335.41	172.62	37.43	37.69	14.87
AA181600	394	EST	5.38	0.03316	168.88	94.16	153.49	-40.51	-47.81	24.34
AA198790	421	EST	7.64	0.00287	238.45	275.18	142.37	22.91	26.8	10.54
AA211483	435	EST	44.07	0.00175	1300.23	1303.61	1051.58	-29.25	-34.98	17.49
AA232508	464	EST	#N/A	#N/A	464	533.98	288.87	170.48	158.89	104.75
AA232590	469	general transcription factor IIIC, polypeptide 1 (alpha subunit, ZENK)	#N/A	#N/A	56.54	43.91	22.15	28.32	31.59	25.36

Table 9A. (page 5) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

A0234096	479	EST	23.72	0.00018	607.06	420.34	386.53	-3.47	1.73	30.91
A0234346	480	EST	36.98	#/NA	39.47	12.81	12.81	6.21	6.79	19.99
A0234362	481	EST	3.89	0.03524	116.26	75.37	105.77	-1.86	-4.2	16.67
survival of motor neuron protein interacting protein 1										
A0234365	492	EST	#/NA	#/NA	56.37	42.6	34.73	12.96	16.93	12.99
A0234706	488	EST	#/NA	#/NA	69.33	53.21	21.55	49.66	39.76	42.06
A0253473	567	EST	15.23	0.00171	375.2	435.69	216.18	-4.38	-3.19	12.35
A0255666	570	EST	#/NA	#/NA	63.43	65.2	30.17	16.18	14.38	13.17
A0256642	582	EST	11.17	0.00035	266.31	275.43	135.85	0.78	-1.34	15.74
A026765	712	EST	7.14	0.02623	230.83	168.72	232.15	11.33	18.29	13.27
A0331383	739	EST	16.73	0.00848	600.02	315.98	598.62	5.08	3.88	9.43
A0349792	759	EST	#/NA	#/NA	525.17	553.97	245.2	221.5	212.24	98.86
A0389808	801	EST	38.69	0.01069	1678.58	1796.68	1500.48	-174.29	-216.06	104.42
A0405715	862	EST	4.68	0.00898	152.23	138.92	96.78	24.47	27.3	11.75
A0406542	878	EST	8.27	0.00724	230.18	170.94	206.8	-1.99	1.49	12.75
anterior gradient 2 (Xenopus laevis) homolog										
A0421562	934	EST	56.3	0.0041	2556.78	792	3323.39	14.22	15.72	6.54
A0424487	945	EST	38.41	0.00002	2669.32	1863.02	1900.51	67.92	61.95	46.24
A0425279	951	quiescin Q6	6.15	0.00083	221.93	181.8	167.44	18.33	22.33	44.81
serine/threonine kinase 24 (Sle20, yeast)										
A0425401	954	homolog	3.22	0.00625	246.6	168.4	175.99	76.4	78.33	43.72
A0429009	994	serine protease inhibitor, Kuritz type 1	30.04	0.00001	1010.32	1100.19	472.23	-2.97	-24.67	62.21
A0436616	1056	EST	3.16	0.04402	79.96	91.35	62.83	-0.73	3.24	15.36
A0447697	1104	EST	11.42	0.00362	306.28	178.65	244.12	-16.27	-14.45	8.55
A0447991	1112	EST	4.99	0.00173	279.79	234.63	161.24	64.49	40.73	53.34
A0456254	1211	EST	5.36	0.0259	403.69	194.85	401.21	51.84	43.51	37.57
A0478556	1303	EST	#/NA	#/NA	172.35	136.55	120.49	143.25	134.62	106.1
A0481208	1388	chromosome 6 open reading frame 1	#/NA	#/NA	159.88	143.86	80.49	123.37	131.81	47.97
A0459585	1454	EST	#/NA	#/NA	66.17	48.91	48.12	-12.47	-17.55	21.82
C21246	1885	pituitary tumor-transforming 1	3.85	0.00456	100.24	96.81	47.17	-1.7	-11.27	28.49
D20906	1627	EST	5.18	0.02188	210.11	151.67	185.24	14.87	11.71	27.2
F02330	1778	EST	#/NA	#/NA	199.08	170.47	83.95	176.42	195.54	58.6
F03811	1784	KIA0440 protein	#/NA	#/NA	338.66	598.46	142.63	235.37	232.6	47.16
Kell blood group precursor (McLeod phenotype)										
F04531	1791	KIA04715 protein	7.79	0.03205	311.05	366.72	262.03	16.22	20.65	13.52
F08394	1903	H2A histone family, member Y	22.89	0.01753	865.39	696.47	631.83	-49.72	-50.25	35.81
H43646	1930	v-myb avian myeloblastosis viral oncogene homolog	4.5	0.00147	415.02	424.34	219.27	92.12	91.3	52.41
N48284	2536		11.82	0.01981	510.82	523.45	423.41	-36.17	-50.08	50.71

Table 9A. (page 6) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

N50265	2562	DEADH (Asp-Glu-Ala-Asp-His) box polypeptide 16	EST	#N/A	#N/A	44.98	19.91	17.71	26.43	25.36
N62675	2593	EST	EST	3.61	0.04034	109.44	108.08	6.49	15.91	35.18
N73846	2679	EST	EST	3.27	0.00012	78.37	20.06	14.43	17.21	17.21
N89670	2708	EST	EST	4.26	0.00002	115.96	29.79	3.16	-1.81	43.32
N89798	2737	protein tyrosine phosphatase type IVA, member 3	EST	4.65	0.00118	557.51	229.03	139.69	122.61	84.93
R33488	2819	EST	EST	41.34	0.00001	1839.74	1092.84	46.45	33.01	43.84
R44479	2854	KIA00552 gene product	EST	4.14	0.0181	97.01	105.95	7.08	5.99	7.52
R92984	2889	matrix metalloproteinase 12 (macrophage elastase)	EST	11.05	0.00248	312.14	252.62	11.43	6.64	11.52
R95966	2996	EST	EST	11.22	0.00682	482.68	436.33	-106.64	-160.75	127.91
T30222	3099	EST	EST	#N/A	#N/A	35.41	34.75	8.47	9.56	17.71
T32108	3102	EST	EST	6.96	0.00723	1095.16	593.52	923.47	152.11	92.06
T89601	3242	EST	EST	#N/A	#N/A	839.07	747.51	231.92	342.22	200.88
W46451	3526	leukemia inhibitory factor (cholinergic differentiation factor)	EST	#N/A	#N/A	76.95	88.42	36.63	40.09	21.06
W60968	3556	EST	EST	#N/A	#N/A	125.7	144.72	51.99	55.29	21.11
W93726	3653	protease inhibitor 5 (maspin)	EST	16.48	0.00014	355.41	304.26	-14.2	-14.8	10.59
W95677	3661	EST	EST	26.51	0.00161	941.08	566.6	1130.33	17.15	12.83
A4011134	29	EST	EST	26.79	0.00602	1157.47	566.78	-72.57	-51.2	69.3
A4035540	81	glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD)	EST	#N/A	#N/A	39.84	34.37	13.29	12.27	8.86
A4033033	124	EST	EST	7.83	0.00379	21.61	135.28	160.82	-1.28	19.74
A4055905	132	glycoprotein A33 (transmembrane)	EST	42.83	0.00142	1270.03	1026.97	-11.11	-10.85	20.27
A4055911	133	EST	EST	6.86	0.02152	236.18	196.53	14.84	17.82	17.5
A413162	266	keratin 19	EST	4.68	0.00042	117.43	123.78	11.86	13.57	19.63
A4137657	350	apoptosis inhibitor 4 (survivin)	EST	#N/A	#N/A	2728.74	2917.98	-13.21	-14.4	15.84
A4252994	557	WW domain binding protein 4 (formin binding protein 21)	EST	3.55	0.00075	152.63	140.53	50.23	40.59	35.61
A4258836	601	putative G protein-coupled receptor	EST	#N/A	#N/A	41.9	44.58	26.08	23.64	10.4
A4291269	697	creatine kinase, brain	EST	#N/A	#N/A	112.28	45.1	1.53	1.88	6.06
A4335191	741	EST	EST	47.35	0.00419	3540.85	3971.43	3135.19	33.21	43.52
A4422086	938	cyclochrome P540 family member predicted from ESTs	EST	10.71	0.03418	829.27	800.79	39.48	34.98	23.29
A4422150	939	ATP-binding cassette, sub-family F (GCM20), member 2	EST	17.14	0.00108	664.26	609.99	475.91	27.53	22.47
A4427460	972	EST	EST	#N/A	#N/A	215.08	135.22	216.95	83.63	49.3

Table 9A. (page 7) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

A4427636	976	EST	19.23	0.00145	511.98	500.83	299.89	6.19	3.7	15.84
A4429890	1004	disiplatin resistance associated homolog	12.51	0.00063	1225.72	590.09	992.47	90.02	67.23	59.35
A4443316	1075	v-Her-as Harvey rat sarcoma viral oncogene	4.13	0.01729	191.06	173.3	113.42	40.07	41.12	32.54
A459244	1448	KIAA0630 protein	3.39	0.01246	77.48	78.85	37.98	7.71	6.06	7.11
A4609013	1477	dipeptidase 1 (renal)	10.17	0.00109	1185.55	1222.89	634.13	114.31	98.91	75.22
A4620497	1503	EST	#N/A	#N/A	147.72	165.83	66.02	95.91	76.7	80.33
A4620985	1512	EST	3.74	0.03414	100.71	80.15	101.95	3.5	1.8	3.77
C15078	1573	EST	#N/A	#N/A	115.08	73.82	91.34	26.22	31.14	60.2
D07010	1734	integral type I protein	7.08	0.0213	253.6	303.7	149.08	22.95	28.29	24.59
D08048	1738	EST	#N/A	#N/A	82.4	67.39	42.83	41.25	43.53	17.46
F04320	1786	replication factor C (activator 1)* (37KD)	3.63	0.01119	90.37	115.96	49.41	14.25	17.26	9.79
H03629	1834	desmin	#N/A	#N/A	52.19	58.52	35.47	-1.96	-2.94	6.58
H11760	1878	EST	#N/A	#N/A	70.59	62.53	58.16	9.96	8.19	11.54
H24289	1902	E74-like factor 4 (e1s domain transcription factor)	#N/A	#N/A	51.79	47.58	24.25	15.19	16.8	12.36
H57709	1956	ribosomal protein L31	#N/A	#N/A	47.56	34.17	56.68	4.55	2.44	52.46
H68973	1961	solute carrier family 2 (facilitated glucose transporter), member 1	57.98	0.00063	4998.66	4603.55	4107.24	89.89	70.74	58.94
H78211	2001	EST	6.73	0.02488	211.51	183.81	208.45	-115.95	-129.18	70.22
N51985	2564	EST	#N/A	#N/A	49.95	46.84	48.26	-16.14	-17.71	6.65
N82734	2721	EST	#N/A	#N/A	45.63	39.49	14.19	27.31	25.45	10.41
R06251	2763	tumor protein D52-like 2	5.57	0.00037	342.86	381.79	95.11	74.25	68.72	64.11
R27296	2806	EST	#N/A	#N/A	41.82	39.83	32.72	8.27	11.07	7.26
R38947	2824	calcium channel, voltage-dependent, beta 3 subunit	4.11	0.0006	101.82	109.62	28.57	-0.61	0.94	37.6
R98924	3000	EST	6.18	0.03417	451.59	480.51	339.66	51.01	52.94	54.09
T11473	3057	muscle specific gene	5.81	0.02404	189.25	135.11	184.39	-5.65	-10.77	15.89
T16983	3073	cleavage and polyadenylation specific factor 4, 30kD subunit	5.23	0.00075	268.21	300.53	81.43	55.64	45.67	74.28
T30193	3097	protease, serine, 8 (procatin)	8.39	0.00043	1912.22	1228.46	1739.5	214.88	175.57	127.28
T47601	3125	EST	4.05	0.00978	198.79	219.84	62.16	64.5	28.33	122.16
T69935	3178	EST	3.97	0.00188	253.93	230.32	129.66	66.8	52.94	42.32
W72189	3586	ExpB2	3.69	0.02909	113.63	144.75	67.73	20.7	23.2	15.44
D13435	1615	phosphatidylinositol glycan, class F	#N/A	#N/A	80.8	88.58	41.56	34.85	41.76	18.11
D14520	1673	basic transcription element binding protein 2	4.93	0.00004	151.12	135.19	57.24	25.67	17.28	25.67
D21063	1628	minichromosome maintenance deficient (S. cerevisiae) 2 (mblen)	3.83	0.00983	91.18	55.12	60.89	-51.33	-42.53	28.4
D50914	1673	KIAA0124 protein	4.74	0.00752	116.55	91.64	89.27	-17.4	-17.86	16.97

Table 9A. (page 8) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

D63486	1712	KIA0152 gene product	6.33	0.00078	543.91	676.55	287.16	84.6	95.61	45.48
D63880	1715	KIA0159 gene product	4.28	0.00253	93.03	103.26	41.4	-2.12	-4.45	9.38
D79892	1724	KIA0170 gene product	#N/A	#N/A	35.23	42.16	14.88	22	18.09	11.9
D79897	1725	KIA0175 gene product	#N/A	#N/A	55.25	42.49	53.87	8.57	13.07	57.58
D83735	1747	cathepsin 2	10.42	0.00001	488.85	436.55	172.25	42.54	43.06	
D84557	1749	mitochondrial maintenance deficient (mis5, S. pombe)	#N/A	#N/A	142.92	125.75	37.22	37.22	43.12	28.15
D87073	1759	zinc finger protein 142 (zinc phz49)	#N/A	#N/A	40.84	34.37	13.36	33.34	33.07	21.13
J04489	2111	creatine kinase, mitochondrial 1 (ubiquitous)	7.9	0.00705	143.89	162.12	-17.21	-17.21	-18.81	12.88
J05257	2118	drepletase 1 (renal)	12.02	0.02099	428.91	300.76	352.56	-2.05	-21.76	30.87
J05272	2119	IMP (inosine monophosphate) dehydrogenase 1	#N/A	#N/A	269.89	205	173.64	126.69	106.27	82.73
L07597	2146	ribosomal protein S6 kinase, 39kD, polypeptide 1	#N/A	#N/A	36.09	29.39	44.43	-12.04	-10.72	11.97
L11669	2157	tetracycline transporter-like protein	6.75	0.00101	218.77	261.77	115.8	26.26	25.92	17.48
L23808	2179	matrix metalloproteinase 12 (macrophage elastase)	6.18	0.02195	175.24	161.83	132.75	-9.99	-8.2	8.11
L33035	2201	ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase)	#N/A	#N/A	64.36	69.69	40.9	11.52	12.58	6.43
L35545	2202	endothelial cell protein Crk-related protein C receptor	#N/A	#N/A	66.65	55.48	88.13	7.75	5.68	11.48
L38956	2208	RNA-binding protein (autoantigenic)	3.7	0.00093	230.48	161.69	118.85	60.18	59.55	24.77
L41351	2214	protease, serine, 5 (prostatin)	6.34	0.01132	214.13	104.95	189.28	10.86	9.6	22.68
M15205	2285	thymidine kinase 1, soluble	3.75	0.00159	153.15	150.31	66.27	41.98	35.02	29.02
M18728	2285	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	44.82	0.00291	1380.62	1382.73	1031.01	-9.17	-13.17	11.83
M25629	2307	kallikrein 1, renal/pancreas/salivary	#N/A	#N/A	47.43	40.22	29.15	-2.42	2.12	15.6
M27826	2313	endogenous retroviral protease	26.36	0.00342	993.89	833.56	816.33	5.88	7.04	32.2
M29540	2317	carcinoembryonic antigen-related cell adhesion molecule 5	36.57	0.0116	1516.55	1083.69	1372.55	-1.09	-3.15	11.75
M87339	2414	replication factor C (activator 1) (37kD)	4.07	0.00316	93.72	78.1	56.58	4.26	9.92	16.79
M94250	2425	midline (neuro growth-promoting factor 2)	10.39	0.01818	442.2	188.32	824.9	-155.4	-175.43	101.89
M94345	2426	capping protein (actin filament), gelsolin-like	22.38	0.00003	503.47	539.15	179.05	-7.51	-10.35	22.75
M94382	2427	lamin B2	#N/A	#N/A	175.16	154.32	73.52	73.2	81.73	34.64
M95623	2430	hydroxymethylglutathione synthase	#N/A	#N/A	67.65	72.44	22.29	6.67	0.88	24.92
S78187	3035	cell division cycle 25B	8.07	0.00009	188.51	218.04	74.52	3.36	-2.61	26.9
U01062	3272	inositol 1,4,5-trisphosphate receptor, type 3	7.41	0	160.46	164.36	23.91	-1.68	-26.1	26.44
U01147	3274	active BCR-related gene	3.22	0.00103	97.43	84.12	41.43	27.15	22.94	17

Table 9A. (page 9) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

U03398	3281	tumor necrosis factor (ligand) superfamily, member 9	#N/A	116.17	88.07	59.5	115.08	92.7	93.14
U04313	3283	protease inhibitor 5 (maspin)	4.54	0.0286	69.67	115.99	-0.34	-2.59	9.7
U16306	3311	chondroitin sulfate proteoglycan 2 (versican)	#N/A	#N/A	56.91	35.99	8.07	4.58	16.58
U17760	3314	laminin, beta 3 (nicotin (125KD), kalinin (140KD), BM600 (125KD))	3.54	0.01853	103.13	111.96	72.83	-3.15	21.08
U21049	3324	epithelial protein up-regulated in carcinoma, membrane associated protein 17	7.53	0.01687	202.38	246.15	119.31	-14.32	19.43
U38947	3356	TAR (HIV) RNA-binding protein 1	#N/A	#N/A	72.74	66.76	36.14	15.7	10.2
U40990	3358	potassium voltage-gated channel, KQT-like subfamily, member 1	3.18	0.00093	128.02	142.31	43.16	40.88	23.09
U51095	3381	caudal type homeo box transcription factor 1	4.76	0.02664	130.81	143.82	93.4	5.55	8.97
U53786	3389	envoplakin	#N/A	#N/A	221.51	73.95	249.37	-20.54	16.22
U66661	3405	gamma-aminobutyric acid (GABA) A receptor, epsilon	#N/A	#N/A	55.33	44.93	29.26	16.58	11.96
U77413	3426	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	#N/A	#N/A	59.38	59.78	48.05	1.2	5.23
U86006	3451	pyridoxal (pyridoxine, vitamin B6) kinase	3.56	0.00322	103.6	97.56	58.85	15.19	18.84
X13956	3698	EST	3.2	0.00321	75.19	75.13	39.53	15.11	18.02
X14850	3703	H2A histone family, member X	4.11	0.0001	118.41	97.53	52.6	11.6	13.26
X18416	3710	v-abl Abelson murine leukemia viral oncogene homolog 1	#N/A	#N/A	82.49	90.74	16.7	36.59	14.59
X57766	3742	matrix metalloproteinase 11 (stromelysin 3)	#N/A	#N/A	168.25	142.96	124.34	63.38	25.48
X63629	3759	cadherin 3, P-cadherin (placental)	3.02	0.01654	67.22	76.67	29.17	-4.24	-8.82
X67325	3772	interferon, alpha-inducible protein 27	9.67	0.03245	962.87	412.22	1361.55	26.81	69.77
X76180	3792	sodium channel, nonvoltage-gated 1, alpha	11.68	0	320.05	268.84	127.86	22.38	15.02
X93036	3827	FXD domain-containing ion transport regulator 3	42.36	0.00167	1322.91	783.61	1219	-83.87	40.53
Y05003	3846	keratin 19	14.19	0.00217	362.5	427.85	240.73	7.02	10.98
Z46629	3935	SRY (sex-determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal)	#N/A	#N/A	39.69	40.61	13.99	6.21	8.06
A800682	1541	lectin, galactoside-binding, soluble, 9 (galactin 9)	#N/A	#N/A	475.47	430.44	192.68	222.25	51.25
X83228	3807	cadherin 17, LI cadherin (liver-intestine)	10.58	0.02147	342.12	423.87	282.49	-8.87	8.55

Table 9A. (page 10) Genes and ESTs expressed only in Metastatic Liver Tumor vs Normal2

Y10807	3857	HMT1 (mRNP methyltransferase, S. cerevisiae)-like 2	4.28	0.00124	393.27	448.97	142.94	96	90.42	44.52
U48705	3369	discodin domain receptor family, member 1	5.94	0.01323	178.04	200.63	102.82	-1.87	-6.25	25.81
X04654	3678	small nuclear ribonucleoprotein 70KD polypeptide (RNP antigen)	#N/A	#N/A	96.11	89.35	38.15	42.22	41.24	17.18
CG2381-HT13127		CD44 antigen (homing function and Indian blood group system)	#N/A	#N/A	48.43	47.46	47.03	8.05	9.25	7.17
HG371-HT26388		mucin 1, transmembrane	8.44	0.0268	310.61	203.35	303.26	19.1	2.63	34.66
J05582	2121	mucin 1, transmembrane	5.39	0.00056	114	114.74	42.09	-6.01	-4.53	13.68
M16384	2269	creatine kinase, brain	12.69	0.03833	683.38	491.19	923.94	72.18	-70.9	40.37
X54667	3728	cystatin S, cytosol SN	8.53	0.00059	273.96	168.94	217.11	-10.09	-15.68	74.89
M29277	2316	melanoma adhesion molecule	3.91	0.00112	269.54	313.13	82.76	80.09	81.21	48.32
X57348	3741	stratillin	12.53	0.0013	308.28	241.69	194.79	-43.66	-76.43	44.95
U07969	3288	cadherin 17, LI cadherin (liver-intestine)	10.78	0.02002	428.65	383.68	390.23	15.78	12.62	12.06
M12125	2241	cadherin 17, LI cadherin (liver-intestine)	10.83	0.00191	291.63	158.55	229.08	13.01	16.33	11.64
M31523	2329	transcription factor 3 (E2A immunoglobulin enhancer binding factor E12/E47)	#N/A	#N/A	59.78	62.53	10.63	18.65	21.63	8.94
X89133	3839	lipocalin 2 (oncoferrin 24p3)	6.27	0.0453	284.56	129.1	434.01	-28.39	-19.41	26.24
U20469	3320	sulfotransferase family 1A, phenol-preferring, member 3	5.5	0.00299	316.7	231.67	222.02	48.34	54.37	24.09
L42583	2215	keratin 6A	#N/A	#N/A	116.33	111.15	91.3	60.92	51.12	22.52

Table 9B. (page 1) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

Fragment Name	SEQ ID :	Known Gene Name	fold change in metas	p value	metastatic: Mean	metastatic: Median	metastatic: Std Dev	normal set 2: Mean	normal set 2: Median	normal set 2: Std Dev
A0027766	58	1	#N/A	#N/A	16.71	16.37	7.36	25.05	26.19	13.26
A0028876	63	EST	#N/A	#N/A	9.46	10.28	18.91	72.06	47.28	55.89
A0041208	96	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (19kD, ASH)	#N/A	#N/A	234.76	302.34	215.51	448.34	390	234.61
A0044095	102	EST	#N/A	#N/A	29.41	18.4	35.04	167.15	24.92	38.98
A0044842	105	Autosomal Highly Conserved Protein	5.21	0.0009	16.66	16.52	18	159.32	185.41	80.5
A0047151	116	EST	7.13	0.00007	17.55	17.5	10.09	188.62	26.53	11.96
A0056319	139	EST	#N/A	#N/A	21.89	17.62	12.89	29.23	57.94	24.97
A0092376	196	15 kDa selenoprotein	#N/A	#N/A	16.78	14.2	28.1	59.07	171.15	77.57
A0092596	197	bone morphogenetic protein 6	3.46	0.02532	30.18	22.69	61.67	148.47	817.41	545.31
A0092716	198	HLA-B associated transcript-3	13.97	0.00009	62.83	63.53	42.33	952.09	176.13	136.81
A0143019	309	EST	6.75	0.0109	-0.4	-5.82	18.62	102.42	176.13	136.81
A0157401	346	S-adenosylhomocysteine hydrolase-like 1	#N/A	#N/A	15.44	13.27	14.06	61.17	65.58	27.48
A0174202	375	EST	#N/A	#N/A	95.99	38.87	72.55	120.99	125.68	62.33
A0195179	415	eukaryotic translation initiation factor 4A, isoform 2	#N/A	#N/A	30.71	38.24	25.48	85.7	87.87	42.11
A0233225	468	MRS1 protein	#N/A	#N/A	25.15	30.66	28.03	54.1	55.8	22.69
A0234634	486	CCAAT/enhancer binding protein (C/EBP), delta	7.48	0.03318	158.16	49.12	223.12	621.92	588.94	332.64
A0234687	487	EST	#N/A	#N/A	-8	-12.38	20.12	61.87	47.79	57.62
A0234817	490	EST	6.22	0.00069	31.51	20.97	34.92	222.41	158.99	133.06
A0247453	533	EST	3.09	0.0015	32.38	37.86	21.04	120.43	133.44	58.12
A0292440	709	DKFZP568B133 protein	#N/A	#N/A	122.1	125.27	37.73	370.32	318.31	161.37
A0296821	723	EST	#N/A	#N/A	15.47	10.65	21.91	57.72	71.28	33.61
A0298180	726	EST	3.11	0.00747	19.6	25.9	18.83	109.91	84.28	88.07
A0316272	734	fatty-acid-Coenzyme A ligase, long-chain 3	#N/A	#N/A	34.62	38.08	17.08	71.9	73.01	27.47
A0328894	737	EST	#N/A	#N/A	49.88	48.15	31.41	115.97	114.66	46.25
A0397841	780	EST	8.21	0	7.72	3.33	18.47	214.17	189.93	116.41
A0400333	815	tumor necrosis factor alpha-inducible cellular protein containing leucine zipper domains; Huntingtin interacting protein L; transcription factor IIIA-interacting protein	#N/A	#N/A	27.22	27.33	24.37	62.54	58.6	31.69

Table 9B. (page 2) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

A4404214	846	EST	#N/A	35.28	48.54	23.52	70.66	66.71	55.97
A4424307	944	EST	5.73	44.98	21.05	54.01	202.82	194.92	68.07
A4447876	1109	EST	#N/A	13.05	6.78	34.07	27.08	22.86	22.46
A4456687	1197	EST	3.08	0.01189	17.88	53.32	130.65	118.55	65.44
A4479266	1312	EST	#N/A	18.04	21.7	25.73	42.53	38.32	18.46
AB000114	1532	osteomodulin	#N/A	-2.62	-0.81	29.14	31.94	25.4	20.87
AF007216	1550	solute carrier family 4, sodium bicarbonate cotransporter, member 4	5.79	0.00005	14.85	13.93	157.72	162.44	99.26
C02532	1563	EST	#N/A	10.12	16.41	16.79	32.27	34.25	11.02
C15871	1575	EST	3.26	0.00046	13.83	18.19	79.77	83.41	40.17
C16420	1576	EST	5.95	0.00119	26.92	24.82	205.53	234.17	120.92
C18029	1577	tumor susceptibility gene 101	#N/A	27.46	26.72	26.09	94.81	95.79	33.89
D12620	1601	cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase)	35.09	0.00015	41.08	10.11	604.7	631.98	249.32
D13243	1602	pyruvate kinase, liver and RBC	20.22	0	-35.85	51.7	576.28	445.53	502
D14012	1612	HGF activator	12.75	0.0035	160.15	107.03	1705.96	1963.23	794.42
D16626	1622	histidine ammonia-lyase	22.66	0	11.74	18.04	536.78	535.2	166.14
D16626	1622	histidine ammonia-lyase	22.66	0	12.06	22.91	289.6	256.22	113.59
D45288	1651	EST	#N/A	-19.35	-33.07	27.77	31.63	32.56	42.02
D50312	1669	potassium inwardly-rectifying channel, subfamily J, member 8	#N/A	-2.38	3.94	24.71	76.55	72.56	48.96
D57823	1690	Sec23 (S. cerevisiae) homolog A	4.43	0	13.37	8.38	94.25	87.66	30.56
D57916	1691	EST	#N/A	67.05	42.08	79.49	126.25	103.85	69.38
D61991	1706	EST	4.84	0.00005	22.03	21.01	131.66	150.48	60.06
D62103	1707	EST	4.11	0.0253	96.52	111.02	349.4	256.95	229.11
D19069	1894	EST	#N/A	76.83	44.82	88.14	76.54	74.4	40.21
H20627	1898	EST	#N/A	30.59	30.04	23.84	79.8	87.46	43.37
H36271	1920	EST	#N/A	73.92	101.48	54.09	155.43	158.44	39.98
H61002	1967	EST	#N/A	68.96	23.38	102.25	88.87	93.79	36.34
H69367	1977	EST	6.68	0.0001	-5.44	-2.13	155.38	148.31	70.77
H72650	1994	apolipoprotein A-I, apolipoprotein C-III	#N/A	81.21	98.79	41.38	122	125	42.24
J00098	2086	cytochrome P450, subfamily I/A (phenobarbital-inducible), polypeptide 6	#N/A	96.71	29.74	269.46	9836.26	8356.89	8217.05
K03192	2127	EST	69.92	0	3.07	30.14	1767.25	1790.36	741.7

Table 9B. (page 3) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

K03192	2127	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6	69.92	0	-1.32	-6.49	12.52	1087.08	1034.79	451.92
L11244	2155	complement component 4-binding protein, beta	43.33	0	0.49	-8.84	36.95	1147.16	1114.71	441.14
L11244	2155	complement component 4-binding protein, beta	43.33	0	-13.27	-16.78	12.92	292.9	341.12	114.93
L26336	2185	heat shock 70kD protein 2	#N/A	#N/A	15.67	14.08	10.72	31.12	33.86	10.1
L41067	2213	nuclear factor of activated T-cells, cytoplasmic 3	4.96	0.00473	57.54	60.41	36.65	261.77	228.95	119.65
L41067	2213	nuclear factor of activated T-cells, cytoplasmic 3	4.96	0.00473	30.25	13.66	32.44	73.87	77.38	52.02
L44424	2216	UMP-CMP kinase	#N/A	#N/A	23.79	18.2	26.85	57.57	43.3	36.92
M12712	2246	protein C (inactivator of coagulation factors Va and VIII)	7.37	0.01866	107.12	177.74	113.63	646.94	628.19	326.15
M12759	2247	glutathione S-transferase A2, glutathione S- transferase A3	#N/A	#N/A	27.23	21.91	28.99	97.65	103.06	53.91
M14777	2263	glutathione S-transferase A2, glutathione S- transferase A3	#N/A	#N/A	-24.81	-27.52	27.54	2842.35	2790.19	1048.69
M16974	2277	complement component 8, alpha polypeptide	49.47	0.00046	28.24	-6.62	84.02	1843.82	1920.94	524.62
M26393	2309	acyl-Coenzyme A dehydrogenase, C-2 to C- 3 short chain	16.27	0.00007	16.81	12.39	48.16	677.3	775.54	358.47
M30185	2321	cholesteryl ester transfer protein, plasma	3.83	0.0013	-37.15	-29.18	28.09	93.07	86.04	61.35
M61854	2370	cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase)	3.3	0.04185	52.7	55.56	44.01	321.6	166.36	430.71
M95767	2431	chitinase, di-N-acetyl-	4.94	0.00004	26.01	37.13	21.53	173.07	153.03	95
N27670	2473	progesterone membrane binding protein	6.15	0.00321	38.66	15.48	47.19	252.94	292.34	133.48
N40320	2513	EST	7.56	0.01584	98.72	83.43	128.45	556.37	595.16	250.67
N57464	2575	CCAAT/enhancer binding protein (C/EBP), delta	14.69	0.00018	22.28	11.43	38.78	428.29	442.58	169.83
N75120	2689	EST	#N/A	#N/A	20.59	23.42	10.65	61.42	56.66	13.84
N87590	2706	EST	#N/A	#N/A	1.04	-3.72	9.99	64.67	59.2	35.53
N94146	2738	EST	8.05	0	6.82	34.7	14.14	258.82	265.55	101.53
N98542	2746	orosomucoid 1	8.41	0.00001	28.94	10.14	21.89	226.06	187.68	146.11
R18608	2795	EST	#N/A	#N/A	9.95	12.2	25.55	27.53	25.43	10.61
R31641	2813	EST	9.96	0.00011	29.02	21.83	31.18	350.89	330.68	166.29
R63545	2926	EST	5.4	0.00202	2.58	9.54	17.4	157.98	128.33	139.55
R64534	2933	EST	#N/A	#N/A	12.11	14.54	5.77	40.32	40.98	17.27

Table 9B. (page 5) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

W16686	3475	basic helix-loop-helix domain containing, class B, 2	#N/A	#N/A	46.26	-6.45	123.94	100.9	83.13	79.01
W27503	3486	KIAA0876 protein	#N/A	#N/A	17.31	17.31	21.95	27.71	27.51	5.28
W28235	3486	EST	#N/A	#N/A	96.97	150.37	81.4	271.36	307.26	108.42
W28824	3492	EST	15.8	0.00006	-1.99	-5.99	17.64	441.67	509.29	251
W36290	3500	Krelier (mouse) maf-related lauche zipper homolog	3.94	0.02718	48.52	10.45	73.21	157.7	156.24	65.15
W38778	3504	EST	#N/A	#N/A	-55.97	-63.87	44.35	78.01	37.07	137.01
W52581	3540	CD36 antigen (collagen type I receptor, thrombospondin receptor-like 2 (lysosomal integral membrane protein II))	3.08	0.00091	10.92	8.89	10.63	71.35	58.02	37.28
W58520	3549	nucleoporin 88KD	#N/A	#N/A	24.77	26.75	16.56	81.88	87.47	37.77
W81053	3607	EST	4.91	0.00164	-21.38	-13.04	24.17	135.84	109.34	113.36
X02160	3668	insulin receptor	5.29	0.0001	10.06	8.21	10.89	77.32	66.71	45.53
X07618	3688	cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 7a (pseudogene)	35.79	0.00065	59.61	12.32	101.97	1429.98	1631.04	871.55
X07618	3688	cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 7a (pseudogene)	35.79	0.00065	40.81	38.21	14.35	603.22	605.91	330.02
X14787	3701	thrombospondin 1	3.69	0.01115	21.81	22.87	7.7	143.24	86.81	166.32
X16260	3707	inter-alpha (globulin) inhibitor, H1 polypeptide	44.65	0.00933	40.4	36.54	67	1261.99	1133	523.31
X60673	3749	adenylate kinase 3	8.3	0.00016	23.02	32.17	44.24	324.75	164.03	164.03
X92475	3821	ITBA1 gene	#N/A	#N/A	56.74	63.84	25.6	66.2	63.72	20.36
Y00317	3842	UDP glycosyltransferase 2 family, polypeptide B4	18.34	0.00001	-9.82	-11.91	20.96	455.09	477.28	257.07
Y00317	3842	UDP glycosyltransferase 2 family, polypeptide B4	18.34	0.00001	11.31	14.85	7.33	231.32	282.35	122.76
Y10659	3856	interleukin 13 receptor, alpha 1	4.22	0.00061	18.27	12.85	25.15	123.23	134.47	49.24
Y10659	3856	interleukin 13 receptor, alpha 1	4.22	0.00061	15.82	16.3	16.79	81.75	89.09	37.01
Y12711	3858	progesterone binding protein	14.83	0.00285	26.37	16.12	99.79	1061.83	935.43	829.85
Z29481	3874	3-hydroxyanthranilate 3,4-dioxygenase	6.39	0.00029	546.48	440.33	293.12	2012.12	1797.38	944.18
Z30425	3875	nuclear receptor subfamily 1, group I, member 3	26.64	0	5.66	7.49	8.02	181.6	192.48	76.85

Table 9B. (page 6) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

3940	Z68475	glucokinase (hexokinase 4) regulatory protein	13.84	0	-42.61	-53.52	23.46	305.23	239.52	155.98
10	AA004707	copper chaperone for superoxide dismutase	#N/A	#N/A	217.76	217.72	144.41	502.14	473.38	161.01
12	AA005022	retinol-binding protein 4, interstitial	3.16	0.00106	43.46	41.24	9.66	163.36	107.5	110.2
27	AA010619	EST	8.55	0.00057	21.58	5.47	42.99	279.66	288.6	154.98
36	AA017146	EST	10.1	0.00052	30.35	22.85	50.05	414.24	435.09	193.39
41	AA019715	EST	#N/A	#N/A	8.03	8.03	15.9	14.58	7.82	7.82
49	AA024966	EST	#N/A	#N/A	10.89	7.87	8.56	30.56	14.26	14.26
52	AA025930	EST	3.59	0.00372	33.24	25.62	26.11	115.2	110.13	45.17
73	AA032350	EST	3.56	0.0009	10.56	13.86	9.55	84.44	83.69	50.06
89	AA043790	KIAA0837 protein	#N/A	#N/A	5.63	7.44	12.94	32.16	31.34	10.66
107	AA045481	EST	#N/A	#N/A	28.81	21.88	17.14	71.32	63.94	38.49
114	AA046747	EST	4.82	0.00022	-5.19	-4.2	10.73	113.78	86.54	66.41
131	AA053817	EST	#N/A	#N/A	-18.24	-11.6	21.61	56.08	38.68	82.71
136	AA055992	calumotin	3.51	0.00604	80.45	65.8	47.34	276.06	265.13	141.34
142	AA056735	SEC24 (S. cerevisiae) related gene family, member D	#N/A	#N/A	4.59	10.03	14.42	29.84	28.43	10.97
172	AA076672	EST	#N/A	#N/A	86.18	87.53	60.88	122.82	105.84	54.8
176	AA094266	paternally expressed gene 3	#N/A	#N/A	-2.06	0.32	14.88	30.7	26.84	20.69
177	AA094318	EST	#N/A	#N/A	9.73	3.97	17.06	30.63	32.37	11.48
205	AA098964	EST	#N/A	#N/A	30.42	31.06	18.38	96.43	52.57	21.3
218	AA102098	EST	#N/A	#N/A	-1.8	-5.18	15.21	21.79	20.01	6.78
220	AA102571	EST	#N/A	#N/A	8.7	12.32	15.12	17.15	15.33	7.6
234	AA116075	EST	#N/A	#N/A	29.71	23.88	10	62.94	64.79	25.13
235	AA121140	EST	3.33	0.00058	6.67	5.82	3.73	74.84	83.56	31.9
236	AA121257	EST	#N/A	#N/A	21.76	21.21	32.49	42.39	43.62	11.55
258	AA128177	sequence-specific single-stranded-DNA-binding protein	#N/A	#N/A	11.71	6.05	16.96	44.4	33.57	33.54
277	AA133215	calcatonin receptor-like receptor activity modifying protein 1	4.55	0.02092	76.1	37.86	72.97	250.94	266.82	64.2
303	AA136611	EST	#N/A	#N/A	9.05	6.82	8.39	48.23	42.67	13.53
305	AA136940	EST	#N/A	#N/A	40.81	41.78	20.7	79.13	73.37	41.89
316	AA147626	EST	#N/A	#N/A	37.93	20.43	44.09	82.38	75.98	37.45
317	AA147646	DKFZP566A0522 protein	21.82	0	15.59	14.85	24.51	610.52	685.45	288.9
318	AA148480	flavin containing monooxygenase 5	19.64	0	16.26	14.26	14.85	521.95	407.11	247.99
319	AA148539	EST	#N/A	#N/A	9.96	9.87	8.65	26.88	25.69	6.73

Table 9B. (page 7) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

328	AA150205	EST	#N/A	#N/A	-1.1	-1.72	9.15	8.12	7.44	9.59
329	AA150284	EST	#N/A	#N/A	28.51	25.35	17.97	41.67	43.94	18.29
334	AA151243	EST	#N/A	#N/A	1.13	-0.17	14.55	43.61	42.74	11.08
337	AA162030	EST	8.32	0.00018	14.05	16.82	12.13	222.23	220.01	117.56
388	AA182568	EST	10.92	0.00059	33.59	16.15	26.91	52.23	386.2	478.02
389	AA187437	EST	#N/A	#N/A	23.5	47.3	26.91	62.23	63	25.01
405	AA193671	KIA00560 protein	#N/A	#N/A	40.18	43.2	9.74	64.83	38.29	71.28
419	AA195657	EST	6.44	0.00016	5.72	7.44	16.5	157.7	136.21	100.68
432	AA211370	EST	#N/A	#N/A	27.46	29.44	16.5	44.85	45.87	21.25
461	AA227968	histone deacetylase 6	#N/A	#N/A	177.49	137.57	94.86	349.29	340.4	101.81
466	AA233126	EST	#N/A	#N/A	48.86	59.64	33.59	88.56	74.17	35.35
471	AA233369	histidine ammonia-lyase	9.06	0.0008	49.39	47.92	39.8	425.35	405.81	214.85
472	AA233763	EST	4.61	0.00004	25.29	36.26	17.49	146.52	139.66	60.53
489	AA234717	EST	#N/A	#N/A	10.99	5.01	20.04	50.22	53.32	31.32
491	AA234831	EST	3.42	0.00206	23.54	21.62	28.81	112.19	119	49.23
504	AA242822	EST	#N/A	#N/A	9.44	13.66	8.25	27.21	25.96	16.64
522	AA243654	EST	#N/A	#N/A	0.67	3.93	11.08	69.19	62.85	48.63
539	AA251114	prostate cancer overexpressed gene 1	6.6	0.00039	28.47	18.55	28.89	219.81	202.99	87.55
545	AA251776	jun D proto-oncogene	#N/A	#N/A	30.8	23.59	32.23	51.25	46.83	15.96
548	AA251945	EST	#N/A	#N/A	269.35	283.55	60.62	477.47	411.47	377.99
564	AA253410	EST	#N/A	#N/A	18.46	7.23	42.79	49.37	26.82	45.2
569	AA255546	EST	4	0.00301	61.04	67.88	31.64	260.34	224.12	142.84
585	AA256960	EST	#N/A	#N/A	8.43	11.36	27.79	15.63	16.56	6.89
588	AA258158	EST	#N/A	#N/A	7.91	2.43	17.94	44.84	34.32	35.63
602	AA259064	EST	13.15	0.00001	15.32	-1.37	28.67	401.93	394.99	178.23
616	AA276870	EST	#N/A	#N/A	7.44	11.47	12.63	54.24	49.98	28.69
619	AA278624	EST	#N/A	#N/A	26.85	31.59	11.72	83.48	91.25	30.24
621	AA278653	EST	#N/A	#N/A	10.28	11.7	21.49	42.68	43.68	17.64
625	AA279341	EST	#N/A	#N/A	67.56	80.37	50.19	132.89	116.11	67.28
645	AA281545	EST	3.64	0.00002	6.62	-0.81	16.89	87.27	86.27	34.29
649	AA281770	seven in absentia (Drosophila) homolog 1	3.96	0.00094	7.67	4.72	15.41	103.75	79.4	70.74
650	AA281796	mannose-P-dolichol utilization defect 1	3.3	0.04108	65.08	53.58	57.86	170.88	165.02	41.87
666	AA283066	EST	#N/A	#N/A	21.18	25.64	13.39	67.44	59.46	35.89
676	AA294795	phosphatidylethanolamine N-methyltransferase	10.03	0.00019	44.8	62.07	44.12	514.93	591.52	206.4
683	AA296710	lymphocyte adaptor protein	#N/A	#N/A	37.36	39.15	30.32	82.93	86.15	45.58
690	AA287566	KIAA0187 gene product	9.07	0.00013	4.86	6.24	7.4	246.24	201.66	228.04

Table 9B. (page 8) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

AA291293	698	EST	#N/A	#N/A	17.35	18.07	17.24	33.6	33.3	5.56
AA342918	750	EST	#N/A	#N/A	23.67	31.68	25.77	69.4	73.71	18.13
AA365691	763	EST	#N/A	#N/A	48.01	47.17	25.37	28.69	26.73	13.89
AA397904	781	EST	#N/A	#N/A	22.74	18.55	19.05	59.75	54.83	32.24
AA398124	787	growth factor receptor-bound protein 14	7.82	0.00069	3.4	5.86	7.61	188.27	167.23	110.44
AA398366	793	EST	5.71	0.00007	10.99	16.25	21.59	153.16	164.38	83.94
AA398423	795	EST	8.26	0.00063	-17.3	-16.19	23.92	250.51	250.5	119.29
AA398974	798	thrombospondin 1	#N/A	#N/A	-27.87	14.49	146.65	137.87	96.14	119.21
AA400979	825	calcitonin receptor-like receptor activity modifying protein 3	6.05	0.01051	48.89	21.04	80.4	276.38	267.3	88.7
AA401091	826	EST	#N/A	#N/A	31.88	32.59	43.51	30.55	19.82	28.68
AA402224	836	growth arrest and DNA-damage-inducible, gamma	14.41	0.00012	37.55	48.88	48.58	749.36	812.2	443.66
AA402610	839	KIAA0548 protein	#N/A	#N/A	3.02	6.69	13.83	27.54	23.2	17.76
AA402656	841	EST	12.05	0.00001	-2.56	18.8	40.57	342.11	315.47	205.61
AA404248	847	EST	#N/A	#N/A	11.96	11.18	10.84	40.92	35.06	17.49
AA405495	859	EST	#N/A	#N/A	26.12	22.63	43.42	79	82.8	30.16
AA405744	863	EST	#N/A	#N/A	61.18	28.74	58.71	64.39	57.95	35.67
AA406363	874	EST	#N/A	#N/A	6.85	5.69	15.69	35.62	35.06	13.69
AA406610	880	EST	#N/A	#N/A	5.99	6.04	4.63	35.94	34.84	11.57
AA410235	882	EST	7.56	0.00043	0.82	4.15	11.49	185.75	236.93	110.49
AA411795	892	EST	#N/A	#N/A	72.18	53.17	44.28	130.27	131.65	23.71
AA412063	895	EST	8.26	0.00001	11.36	14.03	19.55	220.12	187.85	149.43
AA412149	897	KIAA0480 gene product	#N/A	#N/A	14.07	10.08	14.16	37.43	32.4	15.56
AA412520	903	EST	#N/A	#N/A	18.84	14.4	14.11	80.29	103.19	41.98
AA412700	904	ubiquitin-conjugating enzyme E2L 6	#N/A	#N/A	139.65	95.44	135.61	275.39	273.98	112.87
AA418368	921	EST	#N/A	#N/A	0.1	-6.02	17.92	30.41	32	20.72
AA421051	928	serum-inducible kinase	#N/A	#N/A	42.94	7.14	87.89	51.27	45.65	28
AA421052	929	branched chain alpha-ketobacid dehydrogenase kinase	3.52	0.00869	77.76	94.75	43.63	251.45	221.35	109.93
AA425214	950	EST	#N/A	#N/A	2.71	2.07	4.88	21.4	20.31	10.15
AA426843	970	EST	#N/A	#N/A	9.96	0.97	18.11	48.26	47.37	23.47
AA427537	974	DKFZP596J153 protein	#N/A	#N/A	183.26	156.56	68.58	259.57	242.97	79.81
AA427579	975	regulator of G-protein signalling 14	#N/A	#N/A	13.35	13.28	16.49	34.79	25.25	25.11
AA427819	980	midline 2	3.44	0.00063	25.98	17.06	14.91	97.03	93.49	31.39
AA428150	985	EST	5.24	0.0167	41.92	35.06	30.53	213.96	217.27	76.08
AA428325	988	EST	8.36	0.00002	-0.52	3.28	16.92	194.02	167.37	111.11

Table 9B. (page 9) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

AA429478	EST	3.41	0.02599	55.86	65.19	47.48	192.7	196	89.2
AA435591	kinesin family member 3B	3.5	0.0001	3.57	3.68	10.34	75.9	48.12	29.32
AA436156	EST	#N/A	#N/A	22.66	7.78	34.68	54.35	38.09	38.09
AA436548	EST	#N/A	#N/A	5.08	5.93	5.2	40.27	38.99	22.22
AA436880	EST	3.22	0.00699	4.71	9.21	13.85	86.89	68.41	68.5
AA437295	ribosomal protein L7a	4.35	0.00347	19.67	20.38	43.07	138.16	140.38	70.9
AA439568	transmembrane 7 superfamily member 2	9.06	0.00048	4.48	17.91	24.51	276.02	194.73	227.48
AA447802	EST	#N/A	#N/A	15.64	17.91	13.81	21.51	21.34	7.37
AA448108	EST	#N/A	#N/A	10.9	18.13	15.28	52.58	57.3	23.76
AA449297	EST	3.76	0.00039	3.76	0.63	19.01	91.67	81.15	55.17
AA454667	EST	#N/A	#N/A	21.25	12.77	23.4	83.02	75.81	56.63
AA455111	heterogeneous nuclear ribonucleoprotein C (C1/C2)	#N/A	#N/A	-31.71	-40.39	38.45	38.96	36.83	28.21
AA455261	chromobox homolog 7	#N/A	#N/A	32.5	45.54	26.51	66.78	66.08	30.15
AA455865	phosphatidylinositol glycan, class B	5.41	0.00004	11.68	8.67	10.65	133.15	134.74	63.3
AA455987	EST	5.36	0.00029	20.54	17.51	15.24	128.55	130.64	17.07
AA455988	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma)-butyrobetaine hydroxylase	15.54	0.00001	10.13	11.88	8.38	354.42	375.91	141.08
AA456075	RAD23 (S. cerevisiae) homolog A	#N/A	#N/A	33.34	38.35	32.93	90.47	66.92	68.03
AA456080	EST	#N/A	#N/A	32.35	17.59	33.21	27.76	26.18	12.38
AA456147	general transcription factor IIIA	4.23	0.00688	4.61	0.17	9.08	102.1	89.95	63.84
AA456289	EST	15.31	0.00004	18.07	17.84	39.22	512.64	542.52	303.15
AA456612	EST	16.11	0.00004	16.11	136.36	117.01	254.26	266.45	84.11
AA456652	EST	8.26	0.00001	19.3	18.21	17.18	203.23	218.67	53.52
AA459005	EST	#N/A	#N/A	-3.57	12.22	40.05	49.76	42.58	28.85
AA461448	EST	#N/A	#N/A	1.74	-4.19	22.52	58.65	56.06	32.42
AA464606	MRS1 protein	#N/A	#N/A	24.35	19.03	39.62	59.55	36.75	57.76
AA465720	EST	#N/A	#N/A	11.5	21.33	37.22	93.06	106.97	43.26
AA470153	solute carrier family 21 (organic anion transporter), member 9	13.26	0.00315	47.49	48.57	116.54	726.75	713.23	297.62
AA476104	homolog of mouse quaking QK (KH domain RNA binding protein)	#N/A	#N/A	-7.07	-11.44	23.2	62.06	47.17	56.07
AA478441	cathepsin F	5.07	0.00752	53.85	67.48	43.52	243.44	243.61	66.17
AA479148	EST	38.05	0	6.2	1.32	14.38	895.91	847.72	362.53
AA479488	S-adenosylhomocysteine hydrolase-like 1	4	0.0269	75.18	60.93	59.8	241.1	222.96	112.87
AA480891	EST	8.59	0.00156	46.08	25.74	51.03	444.29	309.38	367.89

Table 9B. (page 10) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

1354	AA487195	EST	#N/A	#N/A	8.73	7.94	9.21	21.04	14.67	16.52
1357	AA487576	EST	#N/A	#N/A	-12.17	-14.87	17.17	26.05	25.27	11.13
1366	AA489009	EST	#N/A	#N/A	15.19	18.01	8.67	59.19	45.15	41.42
1384	AA490964	EST	#N/A	#N/A	20.3	17.53	11.39	47.7	41.84	25.18
1382	AA495803	EST	#N/A	#N/A	95.29	83.46	90.72	84.07	93.85	37.65
1395	AA495824	EST	#N/A	#N/A	4.16	3.28	2.95	35.69	34.43	19.93
1396	AA496053	EST	#N/A	#N/A	0.00095	5.36	2.22	81.79	94.01	42.77
1403	AA496938	EST	#N/A	#N/A	17.71	9.86	20.19	30.24	34.4	14.77
1412	AA504324	EST	#N/A	#N/A	45.99	38.81	31.27	74.31	72.05	31.59
1421	AA521290	EST	#N/A	#N/A	22.84	22.84	63.63	166.84	174.65	56.28
1425	AA598412	EST	#N/A	#N/A	-2.4	-5.93	29.83	59	52.53	29.41
1429	AA598453	EST	#N/A	#N/A	7.27	7.06	9.67	67.15	54.25	41.65
1443	AA599107	EST	#N/A	#N/A	53.34	10	88.85	77.28	58.08	40.75
1446	AA599214	EST	#N/A	#N/A	10.94	7.36	12.27	34.56	36	14.54
1463	AA608546	EST	#N/A	#N/A	-19.59	-29.07	29.39	310.07	300.44	189.6
1467	AA608723	EST	#N/A	#N/A	17.44	15.29	13.31	66.54	70.38	20.94
1481	AA609316	EST	#N/A	#N/A	22.6	21.61	25.56	236.54	226.79	65.9
1482	AA609519	EST	8.13	0.00009	29.3	22.08	22.59	261.82	243.76	106.33
1511	AA620965	NOT3 (negative regulator of transcription 3, yeast) homolog	#N/A	#N/A	4.34	8.96	16.51	48.05	40.77	32.06
1516	AA621209	similar to Caenorhabditis elegans protein CAZC1.9	6.34	0.00144	22.77	19.95	48.78	214.61	167.05	138.24
1517	AA621235	EST	3.44	0.0021	26.29	24.68	23.17	114.75	113.36	65.35
1687	D59989	EST	#N/A	#N/A	8.83	6.61	9.79	77.62	55.56	72.14
1693	D59284	EST	#N/A	#N/A	1.31	0.89	6.58	22.83	20.84	14.1
1792	F04611	EST	23.96	0.00018	42.65	18.88	62.74	1011.2	1040.46	589.37
1794	F04677	EST	#N/A	#N/A	138.06	123.28	34.39	355.75	310.97	168.21
1801	F06350	EST	4.79	0.00088	13.91	-6.46	33.97	147.64	130.28	79.24
1806	F06657	EST	#N/A	#N/A	12.72	8.26	28.12	56.85	57.03	31.82
1807	F07929	EST	#N/A	#N/A	9.35	20.58	23.17	55.49	55.78	27.37
1809	F09079	EST	#N/A	#N/A	6.98	6.51	20.72	226.47	116.41	288.21
1810	F10149	EST	#N/A	#N/A	111.86	108.46	60.06	257.05	276.87	165.09
1817	F10391	EST	#N/A	#N/A	22.16	25.03	8.75	71.82	64.94	26.24
1818	F10418	EST	#N/A	#N/A	44.91	44.45	22.72	64.3	52.54	31.96
1825	F13624	breast cancer anti-estrogen resistance 3	#N/A	#N/A	27.76	19.2	32.49	90.8	73.79	59.27
1827	F13782	LIM binding domain 2	4.17	0.00109	-0.64	5.61	22.4	100.8	119.01	55.07

Table 9B. (page 1) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

H01059	1830	solute carrier family 16 (monocarboxylic acid transporters), member 4	#N/A	#N/A	9.13	9.22	13.53	32.73	34.27	21.05
H02855	1832	EST	5.96	0.00458	5.08	1.15	14.13	261.57	93.25	407.93
H05970	1849	EST	#N/A	#N/A	9.16	12.81	14.19	68.16	65.08	40.19
H09331	1865	EST	#N/A	#N/A	313.2	308.79	122.67	512.04	486.42	149.27
H09353	1866	EST	23.06	0.00094	45.11	16.95	65.29	182.8	124.86	64.37
H10661	1871	EST	4.54	0.00276	31.29	18.75	28.5	132.09	124.86	64.37
H12593	1880	zinc-finger protein 265	10.72	0.0056	39.96	-8.15	111.74	515.58	506.07	224.5
H19504	1895	EST	3.13	0.04948	77.07	48.48	64.05	227.6	221.91	125.23
H20543	1897	DKFZ598B1621 protein	31.03	0.00074	62.11	36.98	80.24	1684.92	1680.81	731.79
H24081	1901	KIAA1035 protein	#N/A	#N/A	19.72	18.46	5.69	24.15	27.08	9.52
H25124	1903	EST	3.65	0.00004	20.47	14.4	12.59	95.09	85.36	34.91
H26568	1914	EST	11.45	0.00568	232.54	140.09	218.85	2206.49	1884.76	783.84
H30270	1915	ATP-binding cassette, sub-family C (CFTR/MRP), member 6	17.09	0.00001	61.04	60.29	25.01	1224.59	1332.86	895.76
H49417	1939	EST	#N/A	#N/A	16.93	17.31	8.56	62.68	54.75	48.37
H52251	1942	EST	#N/A	#N/A	25.41	22.3	15.29	33.86	34.48	19.95
H53829	1946	EST	#N/A	#N/A	44.31	40.52	36.62	96.9	98.22	46.1
H56965	1952	EST	#N/A	#N/A	0.18	0.68	12.9	61.03	73.89	30.12
H57850	1958	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform	3.02	0.00123	41.36	36.05	15.14	131.12	130.36	53.67
H59682	1960	EST	81.41	0	-2.66	5.46	16.1	1886.69	1520.43	1129.35
H60317	1965	formyltetrahydrofolate dehydrogenase	#N/A	#N/A	18.86	22.34	11.81	38.92	39.1	18.67
H69565	1987	EST	4.11	0.00002	15.45	16.92	9.4	95.6	94.91	42.92
H70495	1988	EST	#N/A	#N/A	113.44	81.62	63.73	232.9	256.86	107.1
H70554	1989	EST	10.99	0	-11.73	-19.98	33.09	292.66	288.78	153.17
H87765	2017	KIAA0626 gene product	3.86	0.00131	5.2	7.91	18.6	94.26	93.78	60.64
H89680	2026	protein phosphatase 1, regulatory (inhibitor) subunit 5	31.13	0.00006	12.16	13.82	12.3	990.46	1005.21	755.6
H90417	2028	EST	4.17	0.015	14.23	-10.79	70.02	191.04	154.37	125.5
H83381	2036	EST	24.23	0	6.08	-0.69	28.81	621.48	640.77	214.25
H95079	2046	EST	#N/A	#N/A	7.05	11.03	7.33	39.79	33.3	29.08
H85089	2047	EST	#N/A	#N/A	13.05	13.54	4.03	31.99	31.89	13.19
H85358	2049	EST	3.17	0.00182	-5.85	-5.95	11.57	74.74	72.66	42.36
H95978	2052	EST	8.55	0.00046	12.28	14.38	10.71	240.91	248.43	147.87
H98083	2067	EST	5.09	0.00025	11.73	11.11	3.97	121.51	104.88	70.52

Table 9B. (page 12) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

N22404	2449	EST	3.99	0.01152	30.59	23.97	55.32	193.63	130.09	162.83
N22434	2450	EST	4.37	0.01725	100.96	66.55	110.62	334.51	328.98	150.7
N24879	2459	EST	9.44	0.00008	6.2	5.49	23.52	280.93	337.77	165.77
N24973	2461	EST	#N/A	#N/A	30.46	28.45	11.29	56.57	59.09	22.87
N25082	2464	EST	#N/A	#N/A	31.16	28.04	9.03	64.13	64.97	18.29
N27524	2471	EST	3.13	0.00216	14.16	22.08	20.51	87.67	96.26	42.62
kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)										
N29333	2476	EST	4.78	0.00019	-4.7	-5.88	13.94	108.79	101.27	53.38
N29543	2478	EST	#N/A	#N/A	11.66	9.07	5.04	59.21	51.22	30.43
N29740	2479	EST	#N/A	#N/A	48.71	27.45	46.9	80.01	77.9	37.18
N31952	2489	EST	3.13	0.01481	36.21	27.5	25.04	133.49	147.66	83.03
N34804	2496	DKFZP434L214 protein	8.08	0.00028	6.99	5.94	33.73	334.08	176.4	532.11
N34919	2498	EST	#N/A	#N/A	7.38	6	6.82	52.96	44.23	24.23
N36085	2504	EST	#N/A	#N/A	20.96	19.21	13.89	58.28	58	22.95
N43320	2518	EST	#N/A	#N/A	11.39	11.26	7.06	50.75	36	39.19
N45988	2519	EST	3.14	0.00337	28.42	22.62	13.52	99.42	110.53	49.55
adaptor-related protein complex 2, mu 1 subunit										
N48315	2526	EST	5.3	0.0149	62.03	30.66	52.29	368.37	331.28	260.93
N48674	2529	EST	4.06	0.00028	2.7	4.57	10.52	94.61	72.82	54.62
N50038	2540	EST	#N/A	#N/A	0.25	5.19	45.95	47.04	41.45	16.56
N54053	2560	secreted phosphoprotein 2, 24kD	60.39	0.00087	44.3	-18.16	166.47	2748.73	2790.77	1230.33
N54604	2569	EST	3.72	0.00741	2.36	2.08	35.23	133.06	119.1	109.95
cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuraminic monooxygenase)										
N54792	2570	EST	3.23	0.00099	28.36	27.42	6.39	110.19	77.69	87.32
N55089	2590	PDZ domain containing 1	4.74	0.00055	38.4	36.58	24.6	215.54	167.6	133.64
N59543	2596	EST	9.96	0.00052	1.2	-2.89	17.29	303.49	259.23	225.96
N62922	2595	EST	#N/A	#N/A	14.92	14.15	2.75	54.94	52.4	18.93
N63047	2596	EST	#N/A	#N/A	4.13	0.93	9.72	14.78	15.63	8.24
N63688	2603	EST	7.92	0.00001	19.14	16.14	12.14	221.25	212.4	122.32
N64436	2608	EST	3.51	0.00441	24.46	20.38	21.08	119.24	133.44	70.66
N65959	2611	EST	5.43	0.00044	3.51	3.25	22.24	142.87	149.26	79.26
N66613	2616	EST	#N/A	#N/A	25.61	22.34	26.39	62.58	50.13	51.99
N68871	2637	EST	#N/A	#N/A	4.3	4.02	8.66	34.08	36.71	14.33
N70305	2654	EST	4.41	0.00078	-13.99	-13.48	10.76	105.8	97.72	72.15
N71542	2664	kidney, liver-specific gene	21.05	0	-14.76	-18.28	14.3	471.65	486.43	226.63
N71835	2665	multiple PDZ domain protein	16.28	0	12.84	19.17	14.1	410.92	422.1	218.42

Table 9B. (page 13) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

N73883	2681	EST	9.35	0	16.47	23.48	17.67	256.78	276.41	95.34
N74025	2684	deiodinase, iodothyronine, type I	22.79	0	-7.64	2.14	15.95	527.67	515.68	256.99
N74422	2685	EST	30.32	0	23.57	26.41	36.93	1063.07	1094.48	371.26
N74624	2687	collectin sub-family member 10 (C-type lectin)	#N/A	#N/A	33.8	34.24	5.13	71.81	62.09	43.57
N75072	2688	EST	3.73	0.00379	5.14	6.21	15.5	104.12	104.99	81.79
N76086	2694	EST	#N/A	#N/A	8.23	7.19	6.54	55.55	55.02	35.47
N91082	2719	alpha2.3-sialyltransferase	14.52	0.00024	-0.18	0.18	34.36	512.3	550.51	320.62
N93191	2729	EST	3.25	0.00232	174.54	168.53	56.36	656.95	565.08	409.15
N93403	2733	EST	#N/A	#N/A	4.44	7.63	11.8	48.84	38.39	30.93
N93764	2736	EST	5.92	0.0109	113.46	68.13	96.98	771.74	792.59	504.88
R03490	2760	SEC24 (S. cerevisiae) related gene family, member B	3.03	0.00317	5.87	3.49	12.23	75.28	76.17	48.59
R03002	2762	EST	10.15	0.00003	10.52	8.26	20.8	292.89	264.17	160.28
R06543	2768	EST	#N/A	#N/A	61.75	61.42	88.77	163.57	144.04	96.98
R03746	2770	EST	15.77	0.00009	13.37	-0.9	39.24	455.48	410.16	191.35
R06960	2772	EST	#N/A	#N/A	84.61	75.89	71.35	104.51	116.59	44.71
R08554	2779	plasminogen-like	60.18	0.00091	69.78	24	105.91	2485.63	2384.62	531.43
R09053	2782	EST	5.9	0.0002	6.45	17.17	35.01	186.87	204.61	113.19
R10287	2784	EST	11.2	0.0003	7.46	4.94	35.03	376.82	434.91	198.74
R10684	2787	EST	5.51	0.00741	28.67	1.31	62.39	217.05	221.32	122.94
R12472	2788	EST	55.16	0.00011	32.21	3.13	76.26	2002.79	1030.03	1097.37
R12579	2789	EST	3.5	0.00137	54.49	37.84	28.65	196.7	194.59	92.03
R33146	2816	EST	7	0.00043	3.32	2.1	10.76	179.67	195.02	107
R34362	2821	EST	5.4	0.04615	62.17	353.73	889.66	2107.55	2121.04	1000.75
R33238	2835	KIA0327 gene product	#N/A	#N/A	16.06	16.03	9.94	26.8	23.84	16.46
R43347	2848	synaptotagmin 1	#N/A	#N/A	36.93	32.68	30.41	105.66	100.62	28.62
R43385	2849	downregulated in renal cell carcinoma	5.37	0.00103	5.57	6.67	12.18	150.58	112.8	122.96
R43910	2851	EST	5.71	0	23.41	24.6	11.1	156.7	166.34	52.21
R49602	2884	EST	36.5	0.00001	19.25	9.65	26.41	970.39	905.54	372.69
R51831	2890	EST	5.03	0.00761	5.89	2.5	44.67	221.54	195.97	179.99
R52822	2895	EST	12.79	0.00001	10.78	0.35	28.51	380.07	441.17	180.12
R53044	2897	KIA0981 protein	#N/A	#N/A	17.84	25.74	11.45	48.77	44.34	18.43
R53891	2899	EST	#N/A	#N/A	9.88	5.59	10.68	66.28	52.16	49.21
R59312	2912	EST	#N/A	#N/A	34.37	35.63	22.13	94.44	91.55	36.35
R59722	2915	EST	19.74	0.00016	16.78	-4.94	51.34	628.69	642.78	316.88
R60959	2916	EST	#N/A	#N/A	31.21	23.86	17.79	72.94	69.87	45.25

Table 9B. (page 14) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

R63724	2927	fatty-acid-Coenzyme A ligase, long-chain 3	#N/A	#N/A	13.28	17.42	12.17	42.74	39.66	18.51
R65503	2934	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	21.27	0.00007	28.84	18.5	43.46	704.58	812.38	352.86
R70319	2945	EST	#N/A	#N/A	5.34	2.91	8.92	29.23	29.18	10.78
R70701	2948	EST	#N/A	#N/A	121.11	110.15	41.83	73.19	57.2	56.17
R73468	2956	EST	#N/A	#N/A	9.97	10.43	9.69	38.29	44.82	17.14
R73816	2960	EST	11.53	0.00259	-26.88	-30.68	10.09	462.31	374.67	450.91
R78713	2967	EST	#N/A	#N/A	0.27	-1.59	8.92	70.57	57.33	56.37
R81080	2980	EST	#N/A	#N/A	59.14	37.15	58.04	85.88	61.99	68.99
R83507	2990	EST	#N/A	#N/A	19.53	20.08	11	67.62	67.56	44.22
R83714	2991	fetuin B	10.42	0.00043	-60.74	-65.14	57.99	280.62	301.36	203.96
R83908	2993	EST	5.8	0.02899	66.75	29.54	129.46	384.58	301.29	173.91
R84674	2995	EST	10.76	0.00008	0.91	4.15	14.66	269.49	288.56	148.06
R86822	2999	EST	8.25	0.00008	16.45	17.01	30.67	250.81	257.18	131.85
R87419	3003	cytochrome P450, subfamily VIIIb (steroid 12-alpha-hydroxylase), polypeptide 1	65.07	0.0039	152.16	-3.42	302.56	4114.39	3837.4	1458.43
R87804	3007	EST	#N/A	#N/A	141.46	187.67	95.8	193.05	201.89	61.84
R88413	3011	EST	9.71	0.00007	38.74	28.05	21.96	402.49	443.47	212.95
R89014	3014	EST	#N/A	#N/A	26.98	17.82	29.49	49.82	52.35	16
T16306	3067	EST	#N/A	#N/A	24.23	23.64	24.91	58.82	63.62	22.35
T40895	3116	protein tyrosine phosphatase type IVa, member 1	#N/A	#N/A	1575.59	2039.82	1088.29	4148.86	2440.28	4169.52
T46901	3122	EST	77.28	0.0006	11.33	-31.1	121.66	2808.54	2853.98	891.43
T50773	3135	apolipoprotein C-IV	#N/A	#N/A	94.77	43.61	169.6	8473.97	6484.47	7036.85
T58756	3155	EST	13.39	0.00013	7.38	-19.91	46.26	390.04	388.76	164.41
T58775	3156	small inducible cytokine subfamily A (Cys-Cys), member 16	21.18	0.00006	11.93	-0.59	34.83	577.14	540.96	205.27
T67520	3181	EST	#N/A	#N/A	52.46	49.25	28.02	105.56	113.95	36.23
T67931	3183	fibrinogen, B beta polypeptide	48.55	0	-22.74	-22.4	23.54	1187.95	1000.67	862.18
T69305	3196	EST	#N/A	#N/A	-107.09	-119.3	45.51	4052.6	4262.37	3025.26
T71978	3204	EST	4.39	0.0017	41.46	58.86	43.93	218.38	208.73	89.39
T72502	3207	EST	8.87	0.00009	24.11	24.41	28.19	308.87	271.27	179.15
T73442	3212	EST	94.41	0	28.55	25.96	25.95	3170.29	3275.73	1073.74
T74608	3215	hydroxyacid oxidase (glycolate oxidase) 1	14.03	0	-3.14	-1.78	23.12	360.97	328.7	194.85
T82323	3230	immunoglobulin superfamily, member 4	10.14	0	14.47	5.07	19.91	294.33	229.92	135.46
T87224	3240	EST	#N/A	#N/A	594.24	451.54	184.49	909.33	851.86	431.47

Table 9B. (page 15) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

T90037	3245	EST	3.99	0.0016	23.17	25.82	23.62	150.67	107.18	126.19
T90520	3248	EST	8.67	0.00072	9.05	-7.07	25.65	306.39	362.5	204.34
W15417	3472	KIAA0699 protein	#N/A	#N/A	30.82	20.85	38.03	81.29	48.83	48.83
W48860	3534	EST	#N/A	#N/A	36.89	39	14.08	52.69	41.31	21.1
W60186	3554	EST	3.24	0.00228	19.15	26.5	27.35	101.92	109.68	47.85
W63741	3563	EST	#N/A	#N/A	-11.85	-13.73	14.25	28.54	17.1	44.88
W67147	3565	deleted in liver cancer 1	9.74	0.00002	30.09	9.11	24.66	282.59	235.29	169.33
W67199	3566	EST	3.09	0.01528	16.05	35	12.16	123.27	117.99	90.47
W72382	3581	oxidative 3 alpha hydroxysteroid dehydrogenase; retinol dehydrogenase	#N/A	#N/A	37.21	6.21	66.91	3403.46	3255.54	1538.23
W72471	3582	EST	#N/A	#N/A	17.93	13.32	10.61	71.51	76.9	29.33
W85765	3615	EST	3.83	0.00379	3.6	1.46	7.87	108.99	77.01	109.58
W85886	3618	EST	3.46	0.00814	-6.09	-2.4	11.46	99.92	66.44	97.4
W86431	3624	protein C inhibitor (plasminogen activator inhibitor III)	14.94	0.00152	3.16	5.55	12.03	606.44	395.34	590.7
W89600	3625	EST	32.14	0	12.67	7.49	15.61	792.37	807.74	313.83
W89846	3636	putative glycine-N-acyltransferase	58.28	0	2.16	-22.13	39.9	1717.54	1821.77	502.55
W90018	3639	EST	#N/A	#N/A	-2.1	4.12	13.16	59.32	53.19	41.68
W60396	3642	EST	#N/A	#N/A	16.1	15.26	11.11	23.65	22.93	10.28
W64942	3658	dual specificity phosphatase 10	7.23	0.00137	19.36	16.05	11.9	250.16	281.49	160.43
W65041	3659	EST	12.79	0.00001	6.66	5.17	3.55	291.2	296.05	115.81
Z38161	3881	EST	4.38	0.0011	11.84	12.14	6.32	111.16	107.62	80.11
Z38970	3896	EST	#N/A	#N/A	0.88	2.75	12.7	35.49	32.21	23.55
Z39394	3901	EST	#N/A	#N/A	10.11	10.43	11.1	24.06	22.96	11.11
Z39976	3907	EST	4.4	0.00001	13.09	7.15	18.64	105.45	151.05	98.9
Z40259	3916	EST	5.76	0.00012	19.65	21.87	11.97	110.87	115.21	36.19
Z41271	3927	EST	8.18	0.00002	14.39	8.61	11.98	218.4	223.24	122.06
Z41634	3931	atriadne, Drosophila, homolog of	#N/A	#N/A	51.96	64.49	36.28	145.09	125.16	57.57
A4001902	5	KIAA0302 gene product	#N/A	#N/A	16.4	16.07	3	51.19	48.49	33
A4001903	6	EST	#N/A	#N/A	14.88	17.06	8.8	26.11	28.6	23.36
A4004699	9	EST	#N/A	#N/A	6.64	0.97	14.07	26.52	28.7	13.21
A4009719	20	peroxisomal membrane protein 2 (22K0)	#N/A	#N/A	8.66	10.77	8.65	33.32	25.36	31.12
A4010205	23	EST	47.12	0.00008	-50.14	-51.69	47.17	1370.32	1503.99	715.92
A4010360	24	potassium voltage-gated channel, shaker-related subfamily, beta member 1,	7.41	0	14.43	17.64	14.87	187.55	154.99	92.13
		EST	6.55	0.00027	12.5	14.77	8.62	169.99	135.98	129.2
A4013095	33	EST	#N/A	#N/A	7.81	3.06	19.71	18.96	15.83	8.24

Table 9B. (page 16) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

34	AA015768	EST	15.3	0.00008	12.22	14.2	11.71	417.95	472.1	248.15
35	AA016021	ubiquitin-like 3	#N/A	#N/A	13.88	16.21	13.21	65.65	51.44	46.44
39	AA018867	EST	42.87	0.00002	45.29	29.28	52.68	1944.56	2160.33	1142.41
46	AA024511	suppressor of Ty (S.cerevisiae) 3 homolog	#N/A	#N/A	7.82	3.08	12.06	62.54	58.34	27.73
67	AA031360	EST	#N/A	#N/A	13.46	12.87	10.49	24.36	24.36	9.3
76	AA034365	EST	#N/A	#N/A	21.58	39.46	171.27	216.28	159.86	152.39
90	AA039616	EST	9.36	0.00009	11.48	-4.83	14.2	238.71	224.42	125.28
92	AA040087	EST	4.13	0.00123	34.99	27.32	18.99	156.63	148.88	90.44
94	AA040291	KIAA0669 gene product	3.55	0.00308	12.98	12.72	16.36	101.69	98.94	80.43
111	AA046457	EST	3.2	0.00513	77.66	80.71	27.68	304.54	264.9	233.62
141	AA056482	macrophage receptor with collagenous structure	4.82	0.00199	10.09	19.17	14.96	135.83	132.94	97.88
161	AA074885	EST	11.05	0.00786	79.55	25.58	153.64	652.03	761.74	300.57
163	AA075286	EST	#N/A	#N/A	46.45	36.93	42.61	129.13	121.57	70.36
185	AA096201	EST	5.8	0.00012	21.29	24.75	14.37	177.39	182.95	95.51
206	AA096225	EST	7.33	0.00062	4.37	1.35	6.08	212.68	163.45	194.31
209	AA096571	MD-2 protein	#N/A	#N/A	10.12	4.61	19.11	55.77	82.72	31.71
231	AA115933	KIAA1098 protein	#N/A	#N/A	8.62	6.46	10.77	33.88	34.38	16.63
246	AA126059	EST	3.08	0.00706	102.34	104.33	40.8	380.92	280.71	316.4
253	AA127514	schwannomin interacting protein 1	3.4	0.00445	11.36	10.76	6.8	74.71	76.5	36.07
254	AA127546	EST	#N/A	#N/A	6.76	-0.26	12.36	44.24	41.48	20.02
263	AA129465	meningioma expressed antigen 6 (coiled-coil proline-rich)	#N/A	#N/A	7.9	10.16	24.29	61.62	56.75	34.37
276	AA133214	EST	#N/A	#N/A	3.16	7.46	14.35	65.17	56.11	51.18
280	AA133457	zinc finger protein	#N/A	#N/A	233.92	279.32	161.44	456.09	475.45	114
300	AA136333	EST	#N/A	#N/A	17.23	17.21	5.7	45.55	39.86	25.1
361	AA167550	EST	#N/A	#N/A	4.38	7.64	6.96	28.69	26.29	16.06
365	AA171529	EST	#N/A	#N/A	-1.76	-4.58	6.37	51.3	47.89	33.98
377	AA179004	EST	14.34	0.00008	-33.2	-28.97	78.62	593.76	495.67	326.16
397	AA191310	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform	7.28	0	26.23	29.87	6.93	206.65	205.15	77.34
416	AA195463	EST	#N/A	#N/A	5.44	6.92	3.77	51.81	64.76	26.85
417	AA195515	EST	#N/A	#N/A	7.27	3.56	8.61	51.59	49.91	23.13
422	AA197311	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	6.07	0.00653	-19.49	1.63	43.72	154.69	175.76	83.19

Table 9B. (page 17) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

423	AA196603	EST	#N/A	14.97	24.27	28.57	54.95	55.7	19.61
450	AA223902	EST	0.00003	7.98	-3.32	28.42	292.86	294.78	159.98
452	AA226925	EST	#N/A	11.94	9.22	7.55	49.69	48.29	27.49
463	AA232114	epoxide hydrolase 2, cytoplasmic	24.34	63.09	48.66	60.38	1455.28	1626.11	864.36
467	AA233152	EST	12.95	-29.09	-25.01	34.42	298.54	291.48	156.26
473	AA233797	sperm associated antigen 7	12.95	54.72	50.23	11.36	116.14	127.3	54.24
474	AA235037	EST	4.79	0.0034	18.96	40.67	214.77	118.28	278.52
494	AA235286	PTPL1-associated RhoGAP 1	3.7	0.00643	14.36	13.05	113.81	138.05	138.05
538	AA250958	EST	#N/A	53.41	53.63	22.55	99.74	114.71	55.23
573	AA255903	CD38-like 4	5.67	0.01687	72.5	108.92	383.56	374.1	211.92
578	AA256341	EST	7.37	17.81	2.34	28.59	280.57	324.08	170.98
633	AA279916	spleen focus forming virus (SFFV) proviral integration oncogene sp1	#N/A	61.08	56.18	25.7	115.24	102.89	58.77
638	AA280413	EST	4.46	0.02062	64.05	51.55	339.15	353.53	235.59
661	AA282341	EST	#N/A	7.18	5.97	14.25	31.31	28.9	13.53
751	AA343142	EST	20.87	-12.34	-21.46	30.45	610.64	636.83	438.33
765	AA397919	EST	#N/A	108.63	144.35	84.25	243.79	196.62	185.4
792	AA398280	EST	12.43	-114.74	-71.05	103.33	433.45	423.73	356.61
850	AA404352	EST	7	28.7	20.02	33.28	213.01	172.11	108
879	AA406546	EST	#N/A	-1.45	-7.89	15.19	46.62	50.65	26.97
910	AA416938	5-methyltetrahydrofolate-homocysteine methyltransferase	4.58	0.0632	82.04	68.18	427.41	366.53	235.63
947	AA424796	EST	17.45	48.63	15.48	171.28	879.91	873.25	489.59
992	AA426900	EST	7.01	0.00337	66.25	15.35	615.96	619.42	441.72
995	AA429038	EST	3.29	0.00927	1.93	28.01	106.66	87.59	86.11
1035	AA434225	serum constituent protein	#N/A	1010.64	876.42	674.94	1022.5	748.49	681.49
1250	AA463729	EST	4.07	19.31	19.05	13.37	150.62	116.86	158.67
1320	AA479961	EST	#N/A	33.49	28.45	10.38	88.13	86.35	36.9
1383	AA490947	endothelin converting enzyme 1	#N/A	34.16	35	21.49	56.24	38.75	49.85
1444	AA589198	catenin (cadherin-associated protein), alpha-like 1	#N/A	187.77	108.97	225.55	695.29	680.26	375.12
1521	AA621315	aldehyde dehydrogenase 5 family, member A1 (succinate-semialdehyde dehydrogenase)	#N/A	191.28	141.04	182.69	313.23	281.93	134.57
1592	C20982	EST	#N/A	68.8	85.38	28.73	104.44	88.12	66.28
1593	C21130	EST	8.79	17.56	8.6	19.19	277.16	238.8	186.55

D11835	1588	low density lipoprotein receptor (familial hypercholesterolemia)	21.76	0.00307	76.38	23.21	131.25	895.7	910.39	322.86
D45714	1664	EST	5.64	0.00384	34.3	29.86	13.09	301.07	282.7	
F04944	1795	acyl-Coenzyme A oxidase	4.01	0.00242	40.92	33.99	28.07	191.04	192.25	99.98
F10276	1814	dual specificity phosphatase 6	8.13	0.0001	19.64	13.06	12.33	240.65	275.65	138.17
		glycine decarboxylase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P)	10.33	0.00023	-21.2	-37.69	28.32	290.05	210.37	244.67
H11739	1876	EST	#N/A	#N/A	26.96	17.94	15.81	66.76	66.18	51.67
H68239	1983	EST	3.25	0.01468	10.64	2	22.28	113.19	113.19	95.96
H78620	2004	apolipoprotein B (including Ag(a) antigen)	3.42	0.00769	0.2	1	15.26	100.93	77.36	96.78
H62866	2053	EST	#N/A	#N/A	12.6	9.93	33.15	35.98	53.46	42.74
N22938	2452	serum amyloid A, constitutive	33.39	0.00128	163.4	145.31	160.24	424.44	3330.35	2368.25
N32071	2490	EST	8.75	0.0006	40.89	43.12	15.37	421.21	468.49	238.4
N47469	2521	EST	3.34	0.00329	20.35	13.91	20.65	104.74	98.87	61.84
N48155	2524	EST	#N/A	#N/A	17.08	16.77	14.66	97.37	54.69	98.7
N51117	2543	EST	9.68	0.00081	8.23	4.5	11.88	327.53	296.4	266.42
N52845	2553	EST	5.53	0.00088	26.56	30.14	14.95	219.38	230.31	149.67
N37517	2559	EST	3.97	0.00255	98.49	80.7	56.09	365.45	324.21	118.42
N55572	2573	EST	#N/A	#N/A	22.71	23.6	24.4	45.08	47.45	14.77
N59550	2587	EST	25.56	0.00024	19.9	2.53	65.91	855.88	774.72	358.3
N64017	2605	activating transcription factor 4 (tax-responsive enhancer element B57) growth hormone receptor	5.27	0.00022	5.45	8.71	8.71	122.34	135.27	55.58
N67974	2629	EST	#N/A	#N/A	5.67	-0.08	15.97	82.1	74.13	59.47
N70356	2666	EST	34.35	0	20.93	29.26	36.06	1449.57	1157.97	1115.22
N73561	2675	EST	12.96	0.00011	17.04	4.48	25.06	516.79	458.57	393.69
N90129	2702	metallothionein 1L	66.48	0.00415	179.8	104.5	64.06	10421.47	6368.88	9618.38
N33470	2735	EST	#N/A	#N/A	14.01	8.60	47.00	72.95	72.95	33.65

Table 9B. (page 19) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

R69591	3015	CD5 antigen-like (scavenger receptor cysteine rich family)	9.52	0.00006	87.08	72.59	28.25	1035.39	904.92	691.83
T48075	3129	hemoglobin, alpha 1	32.56	0.00172	246.19	164.89	271.65	7193.95	5199.28	6317.01
T51617	3137	solute carrier family 22 (extraneuronal monocamine transporter), member 3	17.67	0.00018	28.08	19.44	56.17	668.34	725.25	402.88
T51930	3138	EST	9.99	0.00066	8.27	9.41	5.97	325.48	218.59	298.12
T67705	3182	asialoglycoprotein receptor 2	37.65	0.00705	168.64	37.91	284.26	2403.76	2437.4	683.22
T68711	3187	EST	31.65	0.00038	19.73	26.69	98.05	1388.67	1074.67	890.91
T69284	3195	mannose-binding lectin (protein C) 2, soluble (opsonic defect)	36.53	0	9.82	0.32	17.14	1147.2	618.07	972.57
T72711	3205	thyroxine-binding globulin	10.41	0.00163	5.48	20.52	54.58	492.89	371.71	454.89
T72906	3209	EST	7.56	0.00682	4.88	3.04	14.04	233.73	199.26	211.99
T73739	3213	alanine-glyoxylate aminotransferase (oxalosis 1; hyperoxaluria 1; glycolactiduria; seifric-pyruvate aminotransferase)	16.18	0.00277	1881.22	886.45	2229.6	26094.38	15281.08	25947.4
W42429	3506	EST	#N/A	#N/A	98.32	80.07	52.23	252.63	300.68	162.35
W58756	3551	EST	12.17	0.00087	93.37	88.97	71.48	1363.71	1064.26	1032.27
W70131	3574	EST	#N/A	#N/A	108.21	30.68	183.05	118.49	100.66	53.4
W72044	3577	Insulin induced gene 1	24.59	0.00001	41.6	36.28	36.46	1133.09	940.16	723.6
W72079	3578	EST	6.36	0.00641	46.78	17.94	66.71	261.7	214.62	175.87
W72972	3594	EST	5.61	0.00899	44.7	26.44	80.59	277.4	270.63	183.07
W73382	3588	EST	#N/A	#N/A	62.97	39.05	67.26	87.32	89.49	28.17
W85847	3616	EST	7.28	0.00024	4.15	5.29	9.26	187.31	160.02	130.73
W87454	3629	homogenisate 1,2-dioxygenase (homogenisate oxidase)	7.93	0.00149	11.36	5.83	39.02	336.07	275.03	315.24
W92148	3647	kininogen	51.09	0.00376	220.31	42.96	427.59	3697.54	4015.04	1444.89
Z41356	3929	EST	#N/A	#N/A	4.46	15.94	28.44	82.7	48.14	71.73
A4112209	223	acyl-Coenzyme A dehydrogenase, long chain	3.37	0.00084	29.77	28.31	11.33	116	100.18	66.07
A4149253	323	EST	5.12	0.00863	78.65	75.3	61.14	401.77	301.06	333.03
A4211418	434	EST	#N/A	#N/A	65.81	70.1	37.84	223.56	214.42	151.4
A4271480	456	pim-2 oncogene	3.31	0.02413	48	62.07	33.49	195.79	162.34	182.76
A4235507	498	golgi autoantigen, golgin subfamily a, 5	3.28	0.00249	22.14	37.31	26.61	111.91	125.75	59.39
A4257057	586	EST	8.11	0.00379	42.36	16.78	47.02	451.86	462.6	343.05
AA258353	593	EST	5.28	0.00193	71.76	84	37.77	347.7	363.14	106.2
AA279158	623	EST	#N/A	#N/A	50	46.97	19.41	87.9	72.44	38.36
AA282856	664	EST	#N/A	#N/A	0.28	-9.07	30.81	59.89	51.54	35.5

Table 9B. (page 20) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

AA4365053	681	EST	6.95	0.00125	12.65	14.54	23.53	238.16	242.27	169.12
AA312946	731	EST	9.21	0.00106	12.32	13.78	12.24	300.22	304.56	213.18
complement component 8, gamma polypeptide										
AA344866	752	EST	7.28	0.00206	282.65	305.28	176.61	1845.16	1679.29	561.04
AA363203	761	EST	#N/A	0	35.7	40.27	34.51	78.45	75.11	47.8
AA381125	772	EST	15.48	0.00088	17.66	13.82	13.2	412.26	344.45	217.56
AA400030	806	EST	3.98	#N/A	8.99	12.21	11.35	97.83	115.15	52.04
AA400060	807	EST	#N/A	#N/A	25.33	23.57	27.54	60.21	29.91	60.21
AA400258	812	EST	11.89	0.00478	85.31	36.81	139.93	827.48	884.35	562.14
AA400934	824	EST	4.96	0.02013	75.44	67.21	77.7	305.09	307.45	125.76
AA401562	830	EST	50.45	0.03001	155.46	63.87	317.6	3745.71	3628.4	1635.96
AA401825	831	EST	#N/A	#N/A	24.3	26.82	18.04	65.22	57.51	48.54
AA405094	858	EST	#N/A	#N/A	10.03	9.53	7.62	59.95	44.88	50.8
AA412063	898	EST	#N/A	#N/A	30.52	29.79	13.4	81.26	74.52	35.68
AA417078	916	EST	4.1	0.00414	36.75	35.35	15.12	168.88	171.1	150.02
AA419608	925	EST	9.19	0.00005	51.89	51.37	25.93	524.34	571.05	296.46
AA419622	926	EST	4.62	0.00386	24.88	17.15	26	158.88	162.5	112.57
AA421561	933	insulin-like growth factor 2 (somatomedin A)	9.98	0.00007	79.46	77.34	41.63	921.91	703.16	679.72
AA429651	1002	KIAA0871 protein	#N/A	#N/A	15.52	13.25	17.03	44.75	41.91	28.67
succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD										
AA432166	1030	EST	#N/A	#N/A	10.94	14.1	42.99	33.86	42.75	27.46
AA435733	1045	EST	4.71	0.00078	196.97	193.33	110.58	970.79	830.39	567.79
AA443804	1083	GTP-binding protein Rho7	3.09	0.00214	30.32	35.97	13.76	115.87	113.7	66.78
AA446342	1088	seven in absentia (Drosophila) homolog 1	4.84	0.00015	9.92	9.12	4.58	110.73	115.89	53.13
FXRD domain-containing ion transport regulator 1 (phospholemman)										
AA448300	1116	regulator 1 (phospholemman)	24.97	0.00001	118.64	81.63	70.34	2946.54	2905.51	994.41
AA432158	1141	ras homolog gene family, member B	28.96	0.00064	-103.87	-106.99	71.68	1071.9	1164.8	789.64
AA433770	1157	EST	6.04	0.00524	46.33	25.95	53.45	217.46	212.4	70.02
AA454177	1164	EST	10.3	0.0008	9.16	14.72	11.39	324.16	253.23	258.82
AA455966	1181	glycocalyx 1	3.46	0.00887	16.1	4.35	40.39	120.52	137.84	66.93
AA456328	1191	EST	3.35	0.00489	17.08	2.74	30.38	111.5	102.17	68.09
AA458845	1198	KIAA0680 gene product	#N/A	#N/A	23.95	17.11	17.99	67.15	63.46	49.27
AA459256	1212	lectin, mannose-binding, 1	3.01	0.00094	3.83	8.1	8.32	65.91	63.36	39.92
AA460681	1229	EST	7.02	0.00053	-1.52	-6.03	15.81	184.62	196.21	108.17
AA463876	1252	EST	3.31	0.00109	9.81	11.89	10.39	73.95	73.76	46.64

Table 9B. (page 21) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

A4485381	1272	EST	#N/A	#N/A	86.83	36.24	130.22	102.73	113.07	52.43
A4479968	1321	arylsulfatase A	9.01	0.00224	37.97	20.36	45.8	331.32	312.63	97.49
MAOS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A)										
A4480997	1324	EST	#N/A	#N/A	16	20.58	9.93	68.53	55.52	63.6
A4481057	1325	EST	#N/A	#N/A	10.3	18.55	8.1	33.83	37.89	23.22
A4486407	1347	EST	#N/A	#N/A	33.22	47.88	28.61	81.72	97.02	56.07
A4486567	1350	EST	5	0.00002	4.65	2.5	21.62	131.53	98.76	96.59
A4486794	1351	EST	#N/A	#N/A	49.57	52.25	18.73	78.8	72.55	31.84
A4487503	1356	EST	8.85	0.00012	13.8	17.99	8.76	220.45	255.47	119.11
A4490882	1381	EST	3.29	0.00319	20.67	13.84	27.06	100.67	98.47	54.46
A4490890	1382	EST	3.02	0.00007	20.26	21.34	9.23	75.61	65.02	33.37
A4496927	1402	EST	#N/A	#N/A	24.39	26.85	9.47	56.2	55.42	17.68
lectin, galactoside-binding, soluble, 8 (galactin 8)										
A4598685	1435	decorin	#N/A	#N/A	16.45	11.35	11.87	55.9	55.08	42.18
A4599365	1449	EST	#N/A	#N/A	36.41	34.43	21.53	83.84	84.81	43.41
A4600246	1461	EST	#N/A	#N/A	59.11	59.91	32.47	80.55	71.14	61.42
A4609715	1488	EST	#N/A	#N/A	-1.49	-3.92	10.63	29.09	33.14	17.26
A4621796	1531	kinesin family member 3B	4.44	0.00032	21.81	23.64	8.64	128.01	124.81	70.04
C20653	1578	EST	10.59	0.00001	7.99	2.12	11.85	251.82	299.09	106.09
D11802	1597	angiotensinogen	5.65	0.00099	55.88	52.43	25.14	319.73	291.02	132.07
D45529	1662	EST	3.82	0.00193	12.24	-3.36	29.18	126.63	109.06	70.64
D59524	1698	EST	6.7	0	6.09	9.79	34.83	184.48	158.33	79.55
D60789	1703	KIAA0096 protein	4.31	0.00142	13.44	13.91	10.95	119.96	107.2	86.36
bulyrobelaine (gamma), 2-oxoglutarate dioxygenase (gamma-bulyrobelaine hydroxylase)										
F10380	1816	EST	#N/A	#N/A	36.92	34.01	13.56	106.49	93.71	83.35
F10874	1823	claudin 1	4.19	0.00025	233.85	209.96	107.99	1016.95	990.04	477.31
H03348	1833	EST	5.77	0.0001	1.48	7.75	17.79	135.1	134.05	75.43
H10098	1885	EST	#N/A	#N/A	45.29	37.73	26.92	87.28	94.49	38.15
H17472	1888	EST	#N/A	#N/A	12.2	9.54	8.57	31.08	31.66	13.28
H47838	1936	carboxypeptidase B2 (plasma)	16.74	0.00002	-26.99	-41.82	25.87	401.55	412.78	188.81
H56584	1951	4-nitrophenylphosphatase domain and non-neuronal SNAP25-like 1	9.5	0	1.95	10.13	31.43	223.03	233.37	105.28
H69138	1986	v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog	6.76	0.00142	42.88	30.87	38.35	328.51	313.13	218.8
H70627	1990	EST	#N/A	#N/A	17.69	17.62	8.85	42.72	41.34	11.7

Table 9B. (page 22) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

H73535	1986	EST	6.88	0.00202	154.24	97.36	149.45	912.39	956.58	383.35
H7454	1989	EST	#N/A	#N/A	9.65	6.64	15.53	42.67	47.73	27.54
H81070	2006	RNA helicase-related protein	25.74	0.00128	93.43	62.01	121.29	2044.42	2051.11	615.84
H81964	2008	SEC14 (S. cerevisiae)-like 1	#N/A	#N/A	9.95	15.7	12.54	28.9	21.14	20.56
H82424	2009	EST	#N/A	#N/A	41.99	46.17	21.1	65.11	66.41	36.73
H82735	2010	NOT3 (negative regulator of transcription 3, yeast) homolog	#N/A	#N/A	-1.13	6.14	29.78	58.77	54.86	35.76
H83109	2012	EST	16.55	0.00001	2.74	4.43	21.21	417.46	421.97	224.35
H8562	2038	proline synthetase co-transcribed (bacterial homolog)	3.17	0.00113	20.83	14.13	20.46	89.3	84.36	37.72
H83745	2040	GS2 gene	#N/A	#N/A	4.52	8.01	8.31	47.92	46.53	28.87
H68897	2056	KIAA0336 gene product	#N/A	#N/A	35.22	19.98	42.05	48.46	50.39	33.36
H97587	2060	endothelin receptor type B	#N/A	#N/A	-5.07	-3.35	14.02	39.65	36.54	21.7
H97670	2061	EST	#N/A	#N/A	23.31	28.71	31.35	101.35	128.08	56.78
H89393	2076	endothelin receptor type B	3.43	0.00093	4.63	9.33	11.96	79.18	70.67	42.71
N21628	2444	EST	#N/A	#N/A	29.77	24.63	25.09	59.18	46.15	33.56
N35247	2469	EST	#N/A	#N/A	39.9	33.56	15.03	117.08	116.14	57.05
N54311	2553	EST	4.82	0.00183	9.77	9.36	25.17	160.29	130.17	124.7
N57934	2576	forminotransferase cyclodeaminase aminomethyltransferase (glycine cleavage system protein T)	13.81	0.00171	806.55	477.9	939.39	9051.2	6373.16	8542.52
N59532	2594	hepatic leukemia factor	6.73	0.00095	12.43	2.55	17.66	196.37	155.84	122.13
N62523	2591	cell division cycle 42 (GTP-binding protein, 250D)	5.02	0.00087	9.04	6.67	16.46	144.8	148.62	85.03
N63172	2598	progesterone membrane binding protein	#N/A	#N/A	26.88	33.1	24.75	60.99	57.64	40.01
N65130	2613	p10n protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Sträussler-Scheinker syndrome, fatal familial insomnia)	3.98	0.0106	29.02	21.05	33.88	172.14	181.78	114.84
N67009	2621	EST	3.55	0.00956	25.95	11.35	38.17	122.85	124.39	65.69
N67105	2623	EST	5.01	0.00176	-0.75	0.21	16.38	143.36	102.9	121.4
N67876	2627	insulin-like growth factor 1 (somatomedin C)	8.89	0.00042	11.81	15.88	8.82	267.41	145.79	238.35
N68133	2632	EST	#N/A	#N/A	2.35	-5.53	16.59	58.69	37.21	57.82
N68996	2635	betaine-homocysteine methyltransferase	40.99	0	-6.75	-13.81	19.15	1061.81	1013.27	574.42
N72200	2668	EST	#N/A	#N/A	12.93	14.15	14.26	57.8	56.14	30.12
R05309	2758	EST	3.72	0.0008	13.92	13.92	18.75	96.81	100.54	31.73
R06271	2765	EST	6.14	0.00063	23.1	18.95	21.07	208.75	221.65	107.72
R06273	2766	EST	#N/A	#N/A	1.38	103.77	75.66	235.98	183.78	122.56
R31104	2810	EST	#N/A	#N/A	-6.45	0.74	37.65	32.27	26.77	13.57

Table 9B. (page 23) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

R40395	2840	leathin-cholesterol acyltransferase	37.33	0.00032	0.96	-46.23	77.82	1182.03	1230.66	261.28
R40556	2842	EST	3.57	0.00184	8.96	8.28	11.75	91.55	95.59	58.66
R40546	2844	crystallin, zeta (quinone reductase)	6.14	0.00156	18.65	19.52	14.3	205.48	220.3	137.27
R45490	2862	cytochrome K	#N/A	#N/A	27.21	17.36	21.39	71.04	79.77	50.88
R62519	2925	EST	10.83	0.00243	73.01	104.54	56.5	751.42	357.22	
T56281	3150	RNA helicase-related protein	32.34	0.00002	71.16	62.87	44.81	2132.07	2146.52	824.76
		carbamoyl-phosphate synthetase 1,								
		mitochondrial								
T59148	3157	0	88.89	0	17.1	2.26	49.29	3384.09	3845.28	2295.81
T61256	3161	ketohexokinase (fructokinase)	13.59	0.00425	55.8	29.78	120.62	752.99	846.1	315.74
T61654	3165	apolipoprotein A-I	#N/A	#N/A	66.98	-33.89	208.52	9388.4	4297.02	12058.3
T64933	3173	EST	#N/A	#N/A	1.58	10.35	17.94	52.86	40.46	54.68
T65443	3174	EST	#N/A	#N/A	10.45	10.45	13.16	70.03	75.01	29
T66189	3177	glutaryl-Coenzyme A dehydrogenase	8.61	0.00003	17.06	20.49	23.82	269.19	301.13	136.96
T68855	3188	EST	34.04	0	8.38	6.98	9	800.27	911.26	406.27
T68020	3192	EST	5.39	0.00383	32.69	17.15	46.31	202.05	206.64	90.02
T69164	3194	EST	4.38	0.00548	34.31	17.81	30.85	173.2	167.2	85.34
		UDP glycoxytransferase 2 family,								
		polypeptide B10								
T74542	3214	0	32.36	0.00004	27.96	25.04	64.23	1374.78	1445.94	869.3
T84084	3233	EST	#N/A	#N/A	21.47	21.35	9.96	68.96	66.69	27.4
T84491	3234	CUG triplet repeat-RNA-binding protein 2	#N/A	#N/A	32.84	34.93	8.15	79.08	80.41	33.03
T86492	3237	transferin	11.15	0.00006	7.6	9.41	12.34	316.82	197.03	302.36
T91161	3252	EST	3.48	0.00002	9.95	2.64	11.55	77.85	70.8	30.28
W45560	3222	EST	5.06	0.00996	86.81	62.95	81.92	368.61	354.89	158.02
W79422	3501	fumarylacetoacetate	14.94	0.00059	-18.4	-19.27	33.52	467.37	554.19	306.71
W87480	3630	STAT induced STAT inhibitor-2	3.24	0.01063	31.91	26.07	30.44	126.06	115.73	80.94
		protein Z, vitamin K-dependent plasma								
		glycoprotein								
W87606	3632	0	9.23	0.00095	2.53	-1.74	9.98	268.59	280.44	184.7
Z38192	3882	EST	3.35	0.00184	-0.28	-4.75	17.86	87.12	87.23	52.58
Z38833	3910	GTP-binding protein	16.89	0.00034	35.79	41.07	64.59	957.61	1080.1	674.72
		homogentisate 1,2-dioxygenase								
		(homogentisate oxidase)								
		phosphodiesterase 1 (homologous to mouse								
AF000573	1543	phosphodiesterase 1 (homologous to mouse	13.76	0.00002	9.05	13.23	17.33	380.3	348.9	256.4
		phosphodiesterase 1 (homologous to mouse								
		phosphodiesterase 1 (homologous to mouse								
D12485	1600	Ly-41 antigen	4.57	0.00008	-2.69	-0.53	9.86	101.7	90.07	46.62
D14664	1616	KIA0022 gene product	8.88	0.00011	14.15	13.51	9.07	233.08	246.97	111.44
		aminomethyltransferase (glycine cleavage								
D14686	1617	system protein T)	#N/A	#N/A	76.93	90.12	29.68	171.07	190.08	34.32

Table 9B. (page 24) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

D14695	1618	KIAA0025 gene product; MMS-inducible gene	6.48	0	28.53	28.21	12	196.04	197.12	77.25
D16350	1620	SA (rat hypertension-associated) homolog	3.83	0.00117	27.34	29.05	12.27	128.95	133.42	74.27
D31716	1647	basic transcription element binding protein 1	5.35	0.00086	16.08	23.65	17.64	166.06	203.79	87.22
D31815	1648	regucalcin (senescence marker protein-30)	10.55	0.00037	11.48	10.25	7	298.48	281.03	183.56
D49742	1668	hyaluronan-binding protein 2	18.13	0.00012	11.38	-0.72	41.45	509.66	531.78	127.5
D50582	1670	potassium inwardly-rectifying channel, subfamily J, member 11	#N/A	#N/A	61.44	65.47	28.34	70.38	76.35	25.4
D63160	1709	ficolin (collagen/fibrinogen domain-containing lectin) 2 (ficolin)	4.01	0.00381	51.13	46.11	30.07	219.26	228.53	125.06
D76435	1716	Zic family member 1 (odd-skipped Drosophila homolog)	#N/A	#N/A	7.52	9.44	7.51	28.48	22.05	16.54
D78011	1717	dihydropyrimidinase	21.37	0.00003	22.34	11.34	31.83	640.3	680.03	206.48
D85161	1750	stero-C5-desaturase (lunugal ERG3, delta-5-desaturase)-like	9.56	0.00005	31.54	25.11	23.09	350.04	388.34	151.37
D85433	1751	p53-responsive gene 2	#N/A	#N/A	45.14	48.1	33.75	45.46	44.56	22.01
D86983	1758	solute carrier family 23 (nucleobase transporters), member 1	#N/A	#N/A	44.18	43.24	14.93	56.19	53	16.12
D87075	1760	catanoyl-phosphate synthetase 1, mitochondrial	4.15	0.00067	5.77	-0.83	26.24	119.77	104.75	72.62
D90282	1769	cytochrome P450, subfamily 11E (ethanol-inducible)	27.29	0.00002	8.24	12.24	8.02	712.98	819.32	415.69
H46960	1833	EST	3.2	0.00095	-0.27	-6.33	16.23	72.1	71.1	37.01
HG1148-HT1148		A kinase (PKA) anchor protein 13	17.51	0.00024	11.81	2.35	49.19	501.82	482.3	169.87
HG2167-HT2237		plastin 3 (T isoform)	#N/A	#N/A	12.53	10.98	18.36	61.94	62.5	16.73
HG2755-HT2862		protease inhibitor 4 (kallistatin)	#N/A	#N/A	50.51	23.74	81.84	158.94	142.23	112.33
HG4533-HT4938		corticosteroid binding globulin	11.01	0.00001	35.74	42.24	20.88	479.23	562.95	221.2
J02943	2090	solute carrier family 2 (facilitated glucose transporter), member 2	18.98	0.00087	57.49	39.79	44.72	880.54	924.99	144.24
J03810	2099	carboxyl reductase 1	21.99	0.00004	21.12	16.81	24.34	571.66	593.24	118.08
J04056	2104	serine dehydratase	5.19	0.00001	9.77	22.83	29.45	145.33	136.19	73.11
J05037	2116	carboxypeptidase N, polypeptide 2, 83MD	16.24	0.00015	12.71	32.78	67.98	626.47	497.97	306.18
J05158	2117	carboxypeptidase N, polypeptide 2, 83MD	8.52	0	2.27	-7.78	21.43	209.63	218.19	81.01
K02100	2123	ornithine carbamoyltransferase	10.24	0.00009	6.1	3.97	11.14	253.26	300.99	126.18

Table 9B. (page 25) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

K02402	2125	coagulation factor IX (plasma thromboplastin component, Christmas disease, hemophilia B)	28.81	0.00001	10.4	2.94	28.08	745.92	734.01	215.88
L00972	2133	cystathionine-beta-synthase	7.19	0.00008	30.44	29.08	21.44	268.9	253.33	153.24
L07956	2148	glycan (1,4-alpha)-, branching enzyme 1 (glycogen branching enzyme, Andersen disease, glycogen storage disease type IV)	5.6	0.00029	19.13	18.57	16.75	166.17	184.57	75.67
L09717	2153	lysosomal-associated membrane protein 2 murine leukemia viral (bmt-1) oncogene homolog	4.06	0.00034	16.76	9.78	21.83	115.12	111.26	57.66
L13689	2164	activating transcription factor 3	#N/A	#N/A	32.33	34.76	18.57	63.42	77.84	36.39
L19871	2172	apolipoprotein F	#N/A	#N/A	72.2	31	78.72	96.22	86.66	61.41
L27050	2186	pericentriolar material 1	10.26	0.00026	-23.8	-20.7	14.43	258.1	252.65	124.08
L27841	2187	afatinin	#N/A	#N/A	56.75	58.95	40.61	90.06	82.71	28.43
L32140	2182	arylsulfatase deacetylase (esterase)	17.31	0.00003	9.44	16	10.75	428.89	464.97	221.11
L32179	2193	procollagen C-endopeptidase enhancer	23.83	0	22.94	24.96	16.06	688.97	675.71	305.75
L33799	2196	ble acid Coenzyme A: amino acid N-acyltransferase (Glycine N-acyltransferase)	#N/A	#N/A	87.45	73.5	89.14	230.54	248.1	130.08
L34081	2199	cholinesterase	11.96	0.00008	6.09	4.41	14.12	314.27	330.42	174.43
L48516	2220	paraoxonase 3	22.21	0.00004	36.05	26.85	37.25	896.92	896.69	337.05
M10058	2230	asialoglycoprotein receptor 1	23.96	0	-47.64	-42.75	75.52	591.6	603.68	188.25
M11437	2236	kininogen	18.38	0.00006	20.84	10.7	36.84	535.53	539.53	186.97
M11567	2239	angiotensin, ribonuclease, RNase A family, 5	32.25	0.0001	2.5	-18.19	58.03	1018.17	968.25	273.9
M12625	2245	lecithin-cholesterol acyltransferase	4.55	0.01584	110.15	128.06	73.94	447.22	425.61	138.52
M13143	2249	kallikrein B plasma, (Fletcher factor) 1	10.39	0.00019	38.55	37.19	32.81	402.05	441.15	122.27
M13699	2253	ceruloplasmin (ferroxidase)	15.85	0.00012	36.21	37.43	44.51	688.89	638.74	329.28
M14091	2257	thyroxine-binding globulin	10.66	0.00024	1.76	2.84	9.9	269.26	284.66	119.28
M15566	2268	aldolase B, fructose-bisphosphate coagulation factor V (procoagulant, labile factor)	96.06	0	-44.61	-66.97	59.8	2911.78	2539.75	1883.04
M16967	2275	complement component 8, beta polypeptide coagulation factor XII (Hageman factor)	5.56	0.00047	22.71	26.49	30.11	204.85	248.05	88.92
M16973	2276	coagulation factor XI (Hageman factor)	22.75	0.00001	20.03	23.43	31.9	686.99	714.82	203.16
M17466	2279	coagulation factor XI (plasma thromboplastin antecedent)	9.76	0.00285	94.21	63.47	93.18	706.11	724.27	261.46
M20218	2288		6.4	0.00004	38.74	45.83	14.62	247.85	259.47	66.46

Table 9B. (page 26) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

M20786	2280	alpha-2-plasmin inhibitor alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M, microsomal aminopeptidase, CD13, p150) lipase, hepatic nucleoside diphosphate kinase nucleoside diphosphate kinase 5 Janus kinase 1 (a protein tyrosine kinase) coagulation factor XIII, B polypeptide glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P)	16.95	0.00709	58.96	-14.12	171	1074.45	1132.06	620.06
M22324	2295		#N/A	#N/A	224.68	25.21	471.53	365.81	363.02	134.32
M29194	2315		12.18	0.00012	18.97	11.91	30.61	362.8	332.28	87.49
M30269	2323		3.4	0.00026	19.81	26.36	14.57	96.8	94.16	42.52
M33967	2378		4.04	0.00058	34.59	36.64	5.46	164.38	178.74	87.39
M41174	2379		#N/A	#N/A	10.42	10.81	15.82	59.51	59.38	27.77
M4554	2380		5.87	0.00011	-4.73	-4.91	7.92	137.26	136.8	72.05
M4590	2381		6.41	0.00002	14.28	17.87	8.65	152.26	127.72	82.96
M4929	2383	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoenzyme protein C inhibitor (plasminogen activator inhibitor III)	#N/A	#N/A	64.63	38.82	95.31	106.38	86.13	67.95
M68516	2387		20.54	0	-1.34	-11.78	20.54	466.81	481.06	119.75
M68840	2388	monomannose oxidase A	3.96	0.01396	42.09	28.9	45.52	182	201.64	94.09
M69177	2391	monomannose oxidase B	11.64	0.00001	21.97	20.41	20.83	322.15	340.27	94
M74719	2395	transcription factor 4	#N/A	#N/A	8.97	15.15	10.62	46.89	44.78	12.66
M75106	2396	carboxypeptidase B2 (plasma)	40.63	0	19.77	30.19	22.24	1170.81	1124.59	329.77
M76665	2397	hydroxysteroid (11-beta) dehydrogenase 1	19.22	0.00004	33.41	17.51	23.86	628.97	670.88	196.22
M83772	2408	flavin containing monooxygenase 3 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	19.54	0	6.88	-0.95	15.39	504.14	595.51	245.03
M88163	2415		3.37	0.00068	17.39	17.52	7.25	84.41	91.86	41.42
M88338	2416	serum constituent protein	#N/A	#N/A	134.22	128.76	53.79	155.51	140.27	70.28
M89468	2417	mevalonate kinase (mevalonate acetyl-CoA kinase)	#N/A	#N/A	89.85	108.13	54.23	214.81	260.33	86.76
M93405	2423	dehydrogenase	23.06	0	16.51	27.77	20.66	679.66	734.58	307.25
M94065	2424	dihydroxyacetone dehydrogenase electron-transferring flavoprotein	6.47	0.00013	30.26	20.14	17.64	202.13	183.44	86.43
S62232	3026	dehydrogenase	4.9	0.00017	2.73	4.9	4.29	113.33	103.27	60.93
S70004	3028	glycogen synthase 2 (liver)	9.96	0.00001	-0.03	-4.28	11.42	225.1	212.32	102.76
S82240	3038	ras homolog gene family, member E	#N/A	#N/A	19.9	6.78	30.8	75.14	74.07	40.43
U00115	3271	B-cell CLL/lymphoma 6 (zinc finger protein 51)	5.18	0.00045	16.17	10.31	26.94	132.13	133.88	32.06

Table 9B. (page 27) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

U01120	3273	glucose-6-phosphatase, catalytic (glycogen storage disease type 1, von Gierke disease)	13.41	0.00147	83.05	45.5	91.8	878.33	693.43	495.6
U03056	3279	hyaluronoglucosaminidase 1	6.64	0	12.68	11.77	4.73	139.32	137.21	43.97
U08186	3291	complement component 8, gamma polypeptide	19.71	0	-29.27	-36.32	47.54	544.28	630.51	234.87
U11313	3296	steroid carrier protein 2	5.44	0.00187	17.39	0.82	35.86	161.8	228.15	99.25
U12778	3300	acyl-Coenzyme A dehydrogenase, shortbranched chain	5.68	0.00116	5.23	6.16	7.33	147.06	158.14	91.5
U13061	3301	sulfotransferase family 2A, sulfoleptandrostosterone (DHEA) -preferring, member 1	11.32	0.00048	9.66	7.49	19.46	389.12	431.45	213.83
U15174	3309	BCL2/adenovirus E1B 19kD-interacting protein 3	#N/A	#N/A	41.72	11.66	49.01	129.19	138.02	66.72
U15932	3310	dual specificity phosphatase 5	#N/A	#N/A	47.94	27.05	47.87	86.73	86.97	36.45
U17969	3315	nuclear autoantigen	#N/A	#N/A	14.21	12.72	6.13	44.22	41.26	19.09
U19523	3319	GTP cyclohydrolase 1 (dopa-responsive dystonia)	5.25	0.00029	12.84	12.26	15.75	136.86	142.71	66.64
U20530	3321	secreted phosphoprotein 2, 24kD	16.93	0	12.63	11.54	9.93	383.92	421.24	128.02
U22662	3328	nuclear receptor subfamily 1, group H, member 3	#N/A	#N/A	5.71	14.46	20.18	63.21	56.72	37.5
U31342	3343	nucleobindin 1	#N/A	#N/A	77.59	66.2	40.03	183.59	197.29	56.86
U32969	3347	tyrosophan 2,3-dioxygenase	10.07	0.02825	166.12	22.7	333.99	527.61	473.11	268.8
U37143	3353	cytochrome P450, subfamily 1J (arachidonic acid epoxidase) polypeptide 2	#N/A	#N/A	33.79	28.24	31.46	116.06	131.46	46.68
U37547	3354	apoptosis inhibitor 1	#N/A	#N/A	29.52	19.51	48.74	93.6	112.45	52.27
U46689	3365	aldehyde dehydrogenase 10 (fatty aldehyde dehydrogenase)	3.5	0.01292	31.22	25.36	49.19	124.41	136.16	53.23
U48707	3370	protein phosphatase 1, regulatory (inhibitor) subunit 1A	14.22	0	-1.33	-1.45	20.92	319.97	310.24	125.51
U48082	3372	transporter protein	9.17	0.00088	71.87	46.71	56.13	563.34	515.31	179.82
U49248	3373	ATP-binding cassette, sub-family C (CFTR/MRP), member 2	7.06	0.00067	30.01	26.03	35.14	231.96	249.25	91.2
U50929	3379	betaine-homocysteine methyltransferase	36.91	0	8.63	2.82	20.35	896.57	865.9	313.61
U57094	3393	RAB27A, member RAS oncogene family	#N/A	#N/A	30.85	31.58	23.86	93.08	93.79	50.75
U58423	3398	MAD (mothers against decapentaplegic, Drosophila) homolog 1	#N/A	#N/A	17.46	16.81	10.17	60.5	51.09	37.25

Table 9B. (page 28) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

U68233	3411	nuclear receptor subfamily 1, group H, member 4	6.76	0.00022	19.94	9.8	29.99	196.25	233.6	83.71
U69141	3413	glutaryl-Coenzyme A dehydrogenase	3.06	0.00053	35.13	27.91	13.89	109.36	119.26	34.82
U72515	3415	putative protein similar to nassy (Drosophila) hydroxyacyl-Coenzyme A dehydrogenase, type II	#N/A	#N/A	45.44	58.93	45.12	137.35	138.01	55.38
U73514	3418	LPS-induced TNF-alpha factor	3.79	0.01392	9.85	-22.7	58.91	159.74	161.9	127.8
U77386	3425	retinoid acid receptor responder (lazarotene induced) 2	4.47	0.00108	30.53	33.74	31.54	169.83	141.36	87.43
U77594	3427	reelin	11.95	0.00527	94.59	122.86	71.01	838.98	864.02	313.37
U79716	3436		3.51	0.00053	14.44	9.15	15.58	90.6	101.49	36.51
U81607	3439	A kinase (PRKA) anchor protein (gravin) 12	#N/A	#N/A	18.75	8.46	50.91	82.7	78.31	62.79
U83461	3443	solute carrier family 31 (copper transporters), member 2	#N/A	#N/A	24.64	21.28	13.16	51.79	48.53	20.85
U85193	3446	nuclear factor I/B	#N/A	#N/A	21.84	23.61	4.44	72.71	68.69	32.02
U80544	3453	solute carrier family 17 (sodium phosphate), member 2	6.42	0.00023	-3.14	-5.18	19.12	157.41	168.92	63.8
X02750	3670	protein C (inactivator of coagulation factors Va and VIII)	7.04	0.00079	55.79	52.95	30.08	373.11	367.46	95.74
X06562	3683	growth hormone receptor	10.87	0.00001	10.46	6.89	15.53	291.31	314.9	160.28
X07732	3690	heglin (transmembrane protease, serine 1)	28.21	0	-8.34	-12	39.24	678.15	672.42	183.61
X07767	3691	protein kinase, cAMP-dependent, catalytic, alpha	5.94	0.00028	16.15	19.43	11.48	152.58	160.88	73.73
X12662	3694	arginase, liver	20.59	0	11.33	10.15	12.81	486.71	479.11	199.71
X13227	3695	D-amino-acid oxidase	4.81	0.0002	25.1	33.95	26.2	166.22	147.21	77.49
X14813	3702	acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thioester)	11.61	0.0002	59.4	71.51	42.45	712.58	704.45	258.91
X15393	3704		#N/A	#N/A	70.16	55.83	27.07	113.93	117.96	26.14
X16683	3711	hematopoietic cell-specific Lyn substrate 1	#N/A	#N/A	48.32	28.69	56.44	81.51	83.53	33.75
X17094	3714	paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)	8.5	0	-1.85	7.01	25.41	190.11	216.35	74.11

Table 9B. (page 29) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

X53414	3725	alanine-glyoxylate aminotransferase (oxalosis I; hyperoxaluria I; glycolicaciduria; serine-pyruvate aminotransferase)	13.87	0.00003	138.92	110.29	90.59	1856.57	1888.79	846.06
X54380	3727	pregnancy-zone protein	8.44	0.00059	4.93	3.19	19.26	274.41	255.4	203.47
X58411	3734	alcohol dehydrogenase 4 (class II), polypeptide	25.14	0.00144	55.53	11.29	102.45	991.98	943.64	448.31
X57025	3739	insulin-like growth factor 1 (somatomedin C)	4.72	0.00087	5.88	10.95	10.22	120.82	101.54	85.16
X63359	3756	UDP glycosyltransferase 2 family, polypeptide B10	13.66	0.00051	55.28	48.57	41.25	669.93	732.6	161.42
X63417	3757	c-myc promoter-binding protein	#N/A	#N/A	28.85	27.75	24.56	68.08	56.34	33.18
X76105	3791	death-associated protein	3.02	0.00944	30.12	33.72	31.36	108.68	118.36	56.75
X78982	3799	butyrate response factor 2 (EGF-response factor 2)	4.69	0.01985	64.86	31.76	66.31	318.26	336.95	207.43
X78981	3803	cadherin 5, VE-cadherin (vascular epithelium)	#N/A	#N/A	45.01	41.07	11.65	80.92	80.1	8.57
X90999	3817	hydroxyacyl glutathione hydrolase; glyoxalase 2	5.27	0.00047	16.15	28.83	28.47	170.37	179.54	76.98
X91148	3818	microsomal triglyceride transfer protein (large polypeptide, 88kD)	5.91	0.00045	15.37	3.85	31.49	173.77	188.11	83.82
X92396	3820	synapobrevin-like 1	#N/A	#N/A	40.87	17.73	57.17	87.49	61.23	31.24
X95190	3829	acyl-Coenzyme A oxidase 2, branched chain	12.81	0	-80.53	-76.73	37.81	265.88	349.39	119.31
X97160	3835	transcription factor binding to GHM enhancer 3	#N/A	#N/A	61.31	49.54	30.41	75.26	66.36	29.46
Z28339	3872	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)	24.66	0	3.67	3.48	5.1	527.72	552.17	156.66
Z47553	3836	flavin containing monooxygenase 5	6.17	0.00011	4.86	1.26	8.96	141.98	165.57	59.33
Z48054	3838	peroxisome receptor 1	#N/A	#N/A	46.89	51.87	23.55	78.16	80.88	26.87
Z48633	3841	EST	#N/A	#N/A	-5.51	-6.39	13.15	36.84	40.63	26.33
Z49209	3842	small inducible cytokine subfamily A (Cys-Cys), member 14	18.46	0.00001	1.88	-25.63	41.94	526.13	532.29	166.67
Z49878	3843	guanine dinucleotide N-methyltransferase	13.96	0.00021	44.63	45.34	41.76	615.57	659.09	196.31
K02786	2126	complement component 9	21.24	0	23.15	14.02	21.18	652.66	656.14	320.1
L04751	2138	cytochrome P450, subfamily IVA, polypeptide 11	36.79	0.00004	32.39	23.29	32.64	1164.28	1183.4	334.08

Table 9B. (page 30) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

M24283	2303	intracellular adhesion molecule 1 (CD54), human rhinovirus receptor	3.19	0.04985	77.88	34.05	69.45	207.07	183.74	121.4
M61853	2369	cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 18	7.82	0.00024	12.17	12.44	4.36	191.94	204.27	91.68
S77410	3034	angiotensin receptor 1	10.4	0	18.77	17.34	10.85	268.59	284.37	98.14
U20938	3323	dihydropyrimidine dehydrogenase	3.92	0.00053	6.66	6.08	7.12	90.86	97.02	44.64
U60051	3399	fasciculation and elongation protein zeta 2 (zeta II)	#N/A	#N/A	61.44	29.18	68.3	55.02	66.29	38.2
X15422	3705	mannose-binding lectin (protein C) 2, soluble (opsonic defect)	8.29	0.00015	2.28	2.69	7.25	208.25	221.14	123.22
X16323	3708	hepatocyte growth factor (hepatopoietin A; scatter factor)	#N/A	#N/A	10.65	6.56	6.59	32.58	30.52	9.66
Y00057	3841	annexin A6	3.4	0.00233	19.43	18.39	33.67	105.39	104.75	39.99
M15465	2266	pyruvate kinase, liver and RBC	6.1	0.00089	3.06	3.32	11.38	158.56	132.57	102.11
D13814	1611	angiotensin receptor 1, angiotensin receptor 1B	3.12	0.00101	13.86	10.01	12.82	79.89	75.71	45.03
HG32383-HT4824		cystathionine-beta-synthase	13.57	0.00035	-0.01	2.09	10.74	377.07	375.12	210.87
HG2730-HT2827		fibrinogen, A alpha polypeptide	25.1	0	17.62	12.16	24.49	720.93	681.36	259.11
HG27433-HT2846		caldesmon 1	3.33	0.00135	27.49	25.6	21.89	103.56	92.79	35.98
M83216	2406	caldesmon 1	4.27	0.00037	7.89	2.98	12.17	105.21	109.38	55.62
J03242	2092	insulin-like growth factor 2 (somatomedin A)	4.01	0.00042	40.37	45.32	15.53	179.86	172.23	104.64
J04093	2106	UDP-glycosyltransferase 1	18.92	0	8.62	8.7	12.9	462.51	511	215.46
M13232	2251	coagulation factor VII (serum prothrombin conversion accelerator)	5.9	0.00014	43.46	42.59	18.46	248.65	275.82	70.94
Y00339	3844	carbonic anhydrase II	6.89	0	6.23	-1.39	18.22	168.76	178.44	69.52
X02176	3669	complement component 9	9.61	0.00004	47.28	46.34	28.54	507.56	507.21	261.45
U37055	3352	macrophage stimulating 1 (hepatocyte growth factor-like) macrophage stimulating, pseudogene 5	18.28	0	-7.37	-38.2	47.48	540.49	628.51	217.69
X65727	3765	glutathione S-transferase A3, glutathione S-transferase A3	73.64	0	21.03	17.39	15.18	2162.22	2183.18	1435.52
U800226	3438	4-aminobutyrate aminotransferase	#N/A	#N/A	39.69	51.46	20.33	86.94	91.76	24.15
U19495	3318	stromal cell-derived factor 1	4.59	0.00011	7.17	5.76	5.65	103.81	114.61	50.36
U08006	3289	complement component 8, alpha polypeptide	16	0.00111	47.06	31.92	47.52	633.01	661.72	102.98

Table 9B. (page 31) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

M23234	ATP-binding cassette, sub-family B (MDR/TAP), member 4	10.05	0	-4.37	-11.49	28.05	255.03	242.93	112.08
M30257	vascular cell adhesion molecule 1	3.11	0.00064	17.33	13.46	10.06	78.1	82.04	35.74
M88873	plasminogen, plasminogen-like complement component 5	17.54	0	-3.92	-8.08	6.71	410.11	403.69	218.51
M65134	cytochrome P450, subfamily I/C (mephenytoin 4-hydroxylase)	12.01	0.00012	2.31	3.66	7.43	303.27	337.96	151.33
X65982	CD36 antigen (collagen type I receptor, thrombospondin receptor)	5.47	0.00014	38.73	31.48	11.66	247.79	149.39	208.59
M98399	glycine aminotransferase (L-arginine:glycine amidinotransferase)	#N/A	#N/A	4.71	4.58	5.51	47.65	38.28	35.2
X86401	UDP glycosyltransferase 2 family, polypeptide B15	22.7	0	19.17	9.16	19.13	646	721.34	274.84
U08854	nicotinamide N-methyltransferase	7.38	0.00005	10.72	6.45	10.71	181.08	184.97	91.81
U51010	cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 7a (pseudogene)	27.79	0.00366	105.25	43.72	204.23	1589.66	1590.92	536.04
X07619	complement factor H related 3, complement factor H-related 4	4.86	0.00004	32.26	33.56	10.88	177.56	206.15	77.69
X64877	H factor (complement)-like 3	14.6	0	14.6	7.51	21.01	387.8	402.95	151.23
X64877	factor H-related 3, complement factor H-related 4	12.33	0	6.14	8.26	14.25	262.65	269.29	84.84
X98337	EST	13.5	0.00001	18.76	22.2	33.33	411.51	375.08	169.37
X94563	N-acetyltransferase 2 (erythrine N-acetyltransferase)	3.52	0.00928	76.79	66.4	52.64	274.91	244.92	177.63
D90042	metallothionein 1F (functional)	7.06	0	5.13	18.92	32.5	167.38	176.16	66.7
M10943	aldo-keto reductase family 1, member C4 (chloroquine reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	3.88	0	53.15	52.73	8.81	217.65	186.71	66.73
S68287	cytochrome P450, subfamily IVF, polypeptide 2	24.11	0	6.23	6.37	9.75	510.59	569.32	165.14
U02388	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	9.38	0.00001	-4.93	-3.43	18.14	207.48	207.15	90.12
U05861	serine hydroxymethyltransferase 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	23.22	0.00002	47.98	44.41	21.91	1070.89	952.74	359.01
L11931	serine hydroxymethyltransferase 1 (soluble)	7.27	0.00041	-18.81	-31.65	28.43	188.25	181.11	114.89

Table 9B. (page 32) Genes and ESTs expressed only in Normal2 vs Metastatic Liver Tumor

L32861	2194	4-aminobutyrate aminotransferase	#N/A	#N/A	15.64	7.44	15.63	76.44	79.62	26.55
M16594	2272	glutathione S-transferase A2	73.21	0	-3.62	-9.74	18.15	1602.11	1787.28	655.41
L00389	2132	cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2	#N/A	#N/A	69.38	86.39	64.81	222.59	184.81	121.16
M33317	2338	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7	32.63	0	44.53	35.06	28.77	1613.89	1437.34	1086.43
U22029	3326	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7	71.98	0	5.05	10.11	21.51	1968.7	1339.04	1937.45
X13930	3697	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6	38.52	0	52.66	64.02	31.42	2408.66	1948.18	1843.46